Search and Order ASTER and MODIS Data through the LP DAAC Data Pool

Earth-Sun System Division,

Land Processes Data and Services in partnership with the U.S. Geological Survey

USGS Earth Resources Observation and Science (EROS)

http://lpdaac.usgs.gov/main.asp

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- Search and Order Options
- ASTER Search and Order
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Overview

- The Data Pool is an online archive providing direct FTP access to selected LP DAAC data products.
- The Data Pool contains ASTER L1B V003 data covering the US and its territories and global MODIS data.
- MODIS daily products are retained for 4 days; all others are retained for at least 12 months.
- ASTER products are retained indefinitely.

Overview (cont.)

- You may search the Data Pool by using a simple “Drill-Down” web interface to quickly locate data of interest.
- The Data Pool also offers immediate FTP access to selected LP DAAC data products.
- You may view Metadata and browse data (if available) through your browser.

Available ASTER Data Types

ASTER

- The LP DAAC Data Pool contains Version 3 L1B Registered Radiance at the Sensor (AST_L1B) granules over the United States and its territories only.
- The temporal extent of ASTER L1B data is from March of 2000 to the present.
- ASTER L1B data downloaded from the LP DAAC Data Pool is available without charge.

Available MODIS Data Types

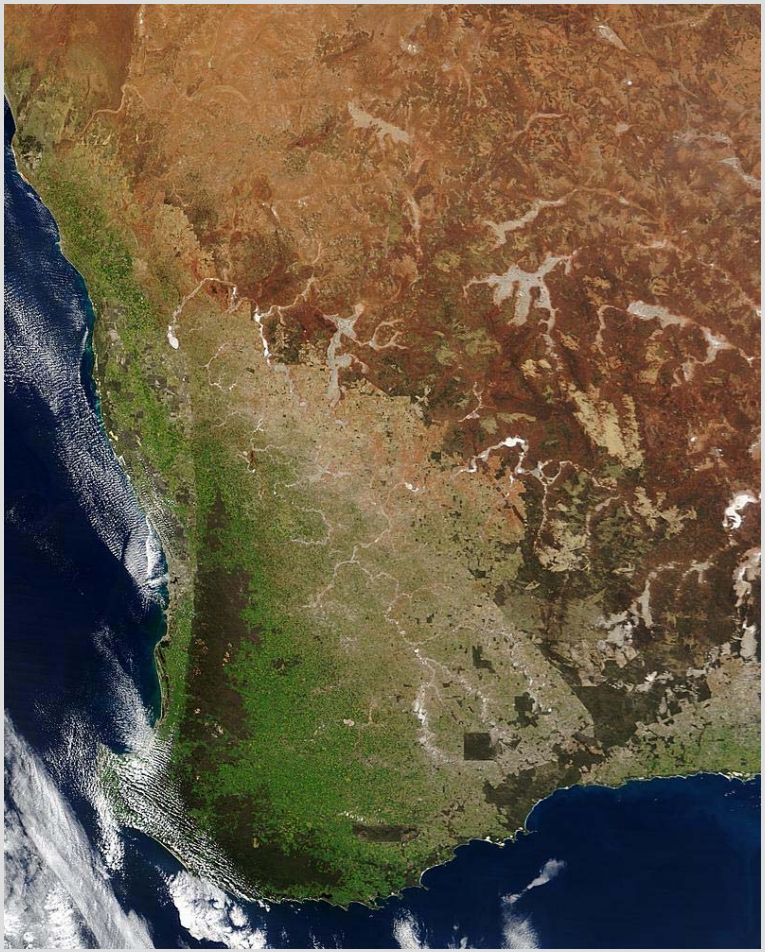
MODIS Aqua & Terra

- The temporal extent of MODIS data varies according to data type.
- MODIS daily data are available for up to 4 days; MODIS composite data are available for approximately 1 year.
- MODIS Datasets available

Data Delivery

Delivery options include:

- FTP
- CD
- DVD
- Digital Linear Tape (DLT)



MODIS granule of drought conditions in Southwest Australia

Search and Order Options

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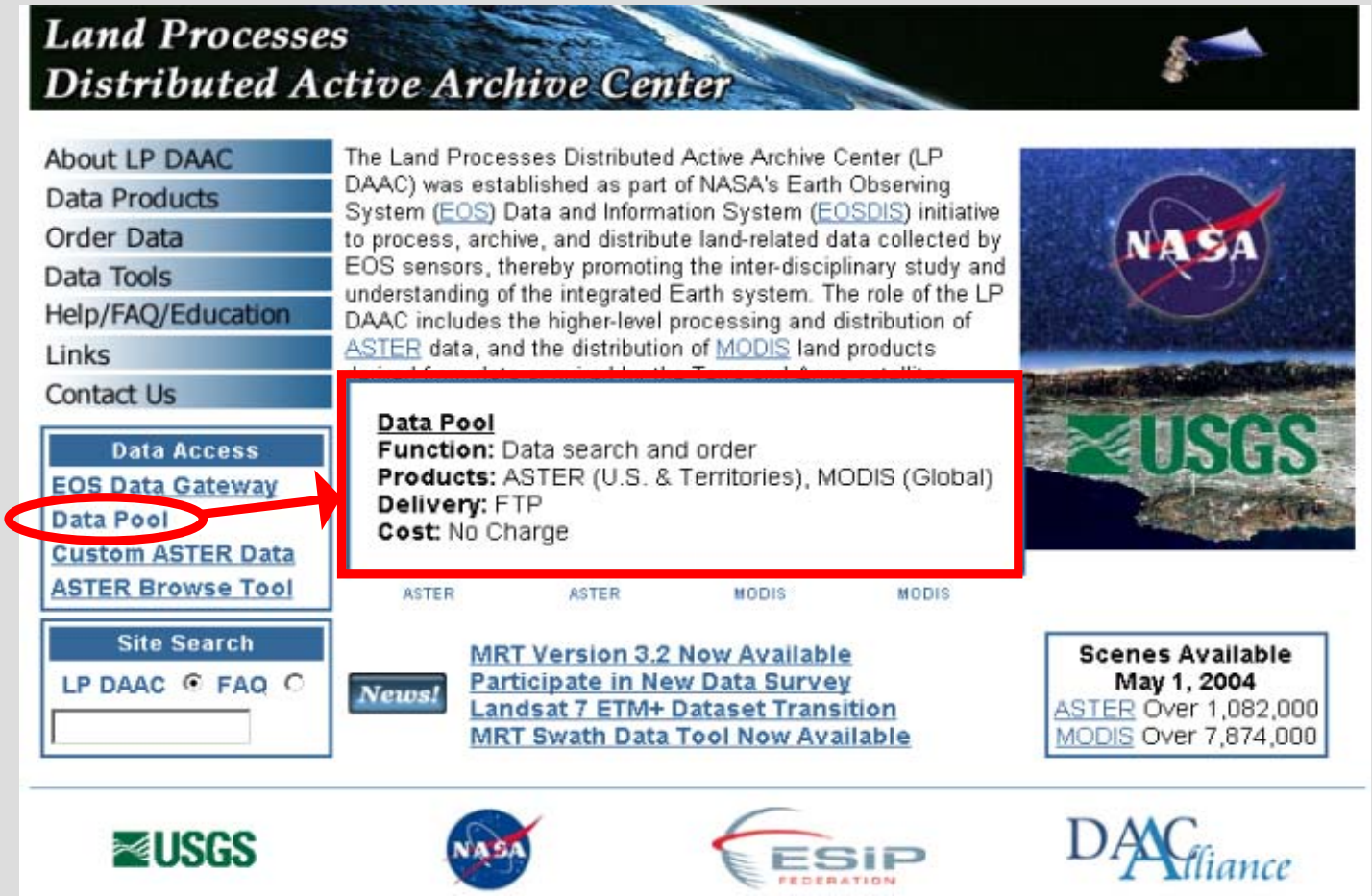
Search and Order Options

Begin your data search at the LP DAAC homepage:

- Click the “Data Pool” link to go to the LP DAAC Data Pool.

LP DAAC URL: http://lpdaac.usgs.gov/main.asp



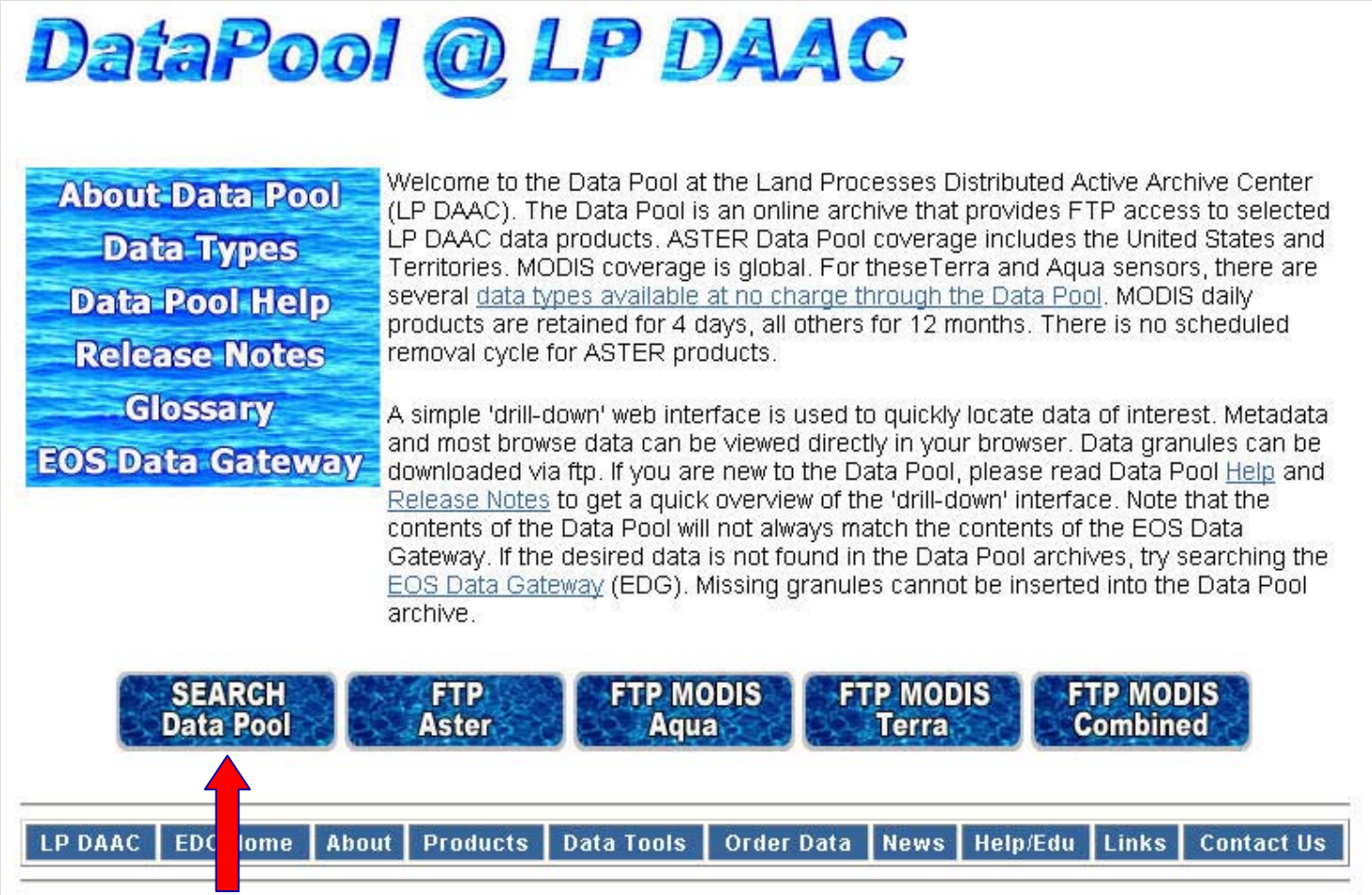
Search and Order Options (cont.)

To search the LP DAAC Data Pool:

- Click the "SEARCH Data Pool" button.

NOTE: Searching the Data Pool is also referred to as the "Drill-Down Method."

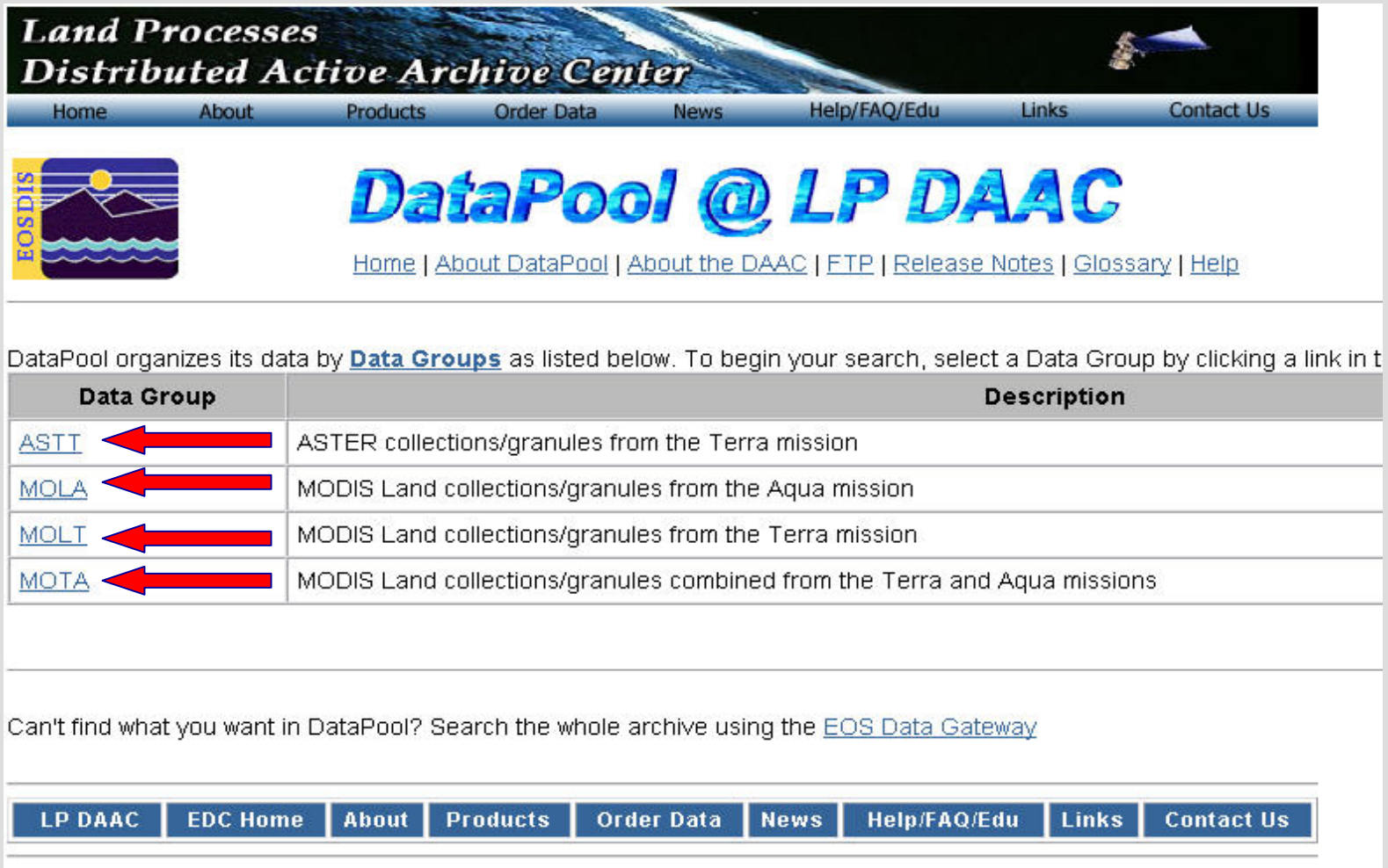
Data Pool URL: http://LPDAAC.usgs.gov/datapool/datapool.asp



Search and Order Options (cont.)

The data sets are organized by data group names.

- Select your desired instrument by using the links located in the "Data Group" column.



Search and Order Options (cont.)

Drill-Down Search Parameters

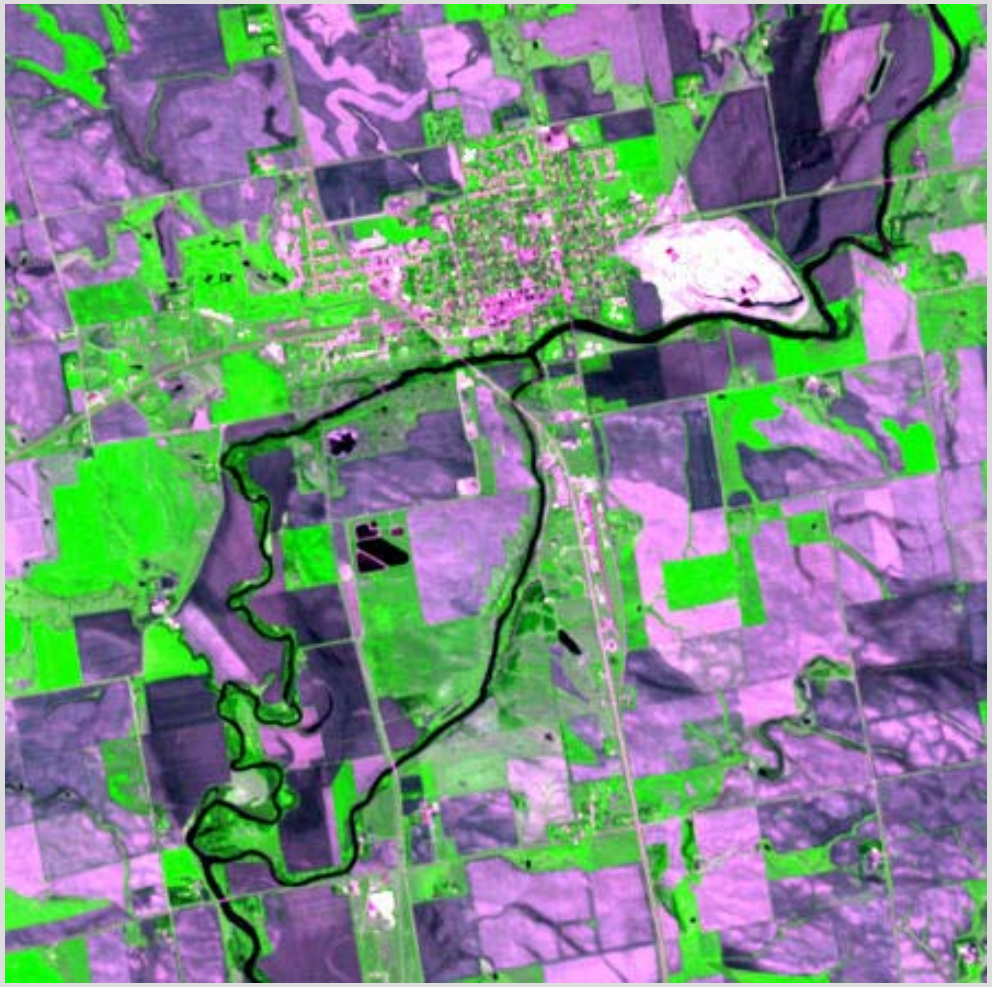
- Spatial Coverage through a java map
  - Pan and Zoom to your area of interest
  - Use rectangle or polygon spatial extent options to cover your area of interest
- Date options available
  - Date selection links are available for day, week, month and year
- Day/Night Flag
- Science_QA (Quality) Flag

Note: At any time, the search options may be skipped and you can retrieve the granules matching the current criteria.

Search and Order Options (cont.)

Please use the links below for LP DAAC Data Pool Search and Order Instructions for ASTER or MODIS data:

- ASTER
- MODIS



ASTER L1B granule of
Dell Rapids, South Dakota

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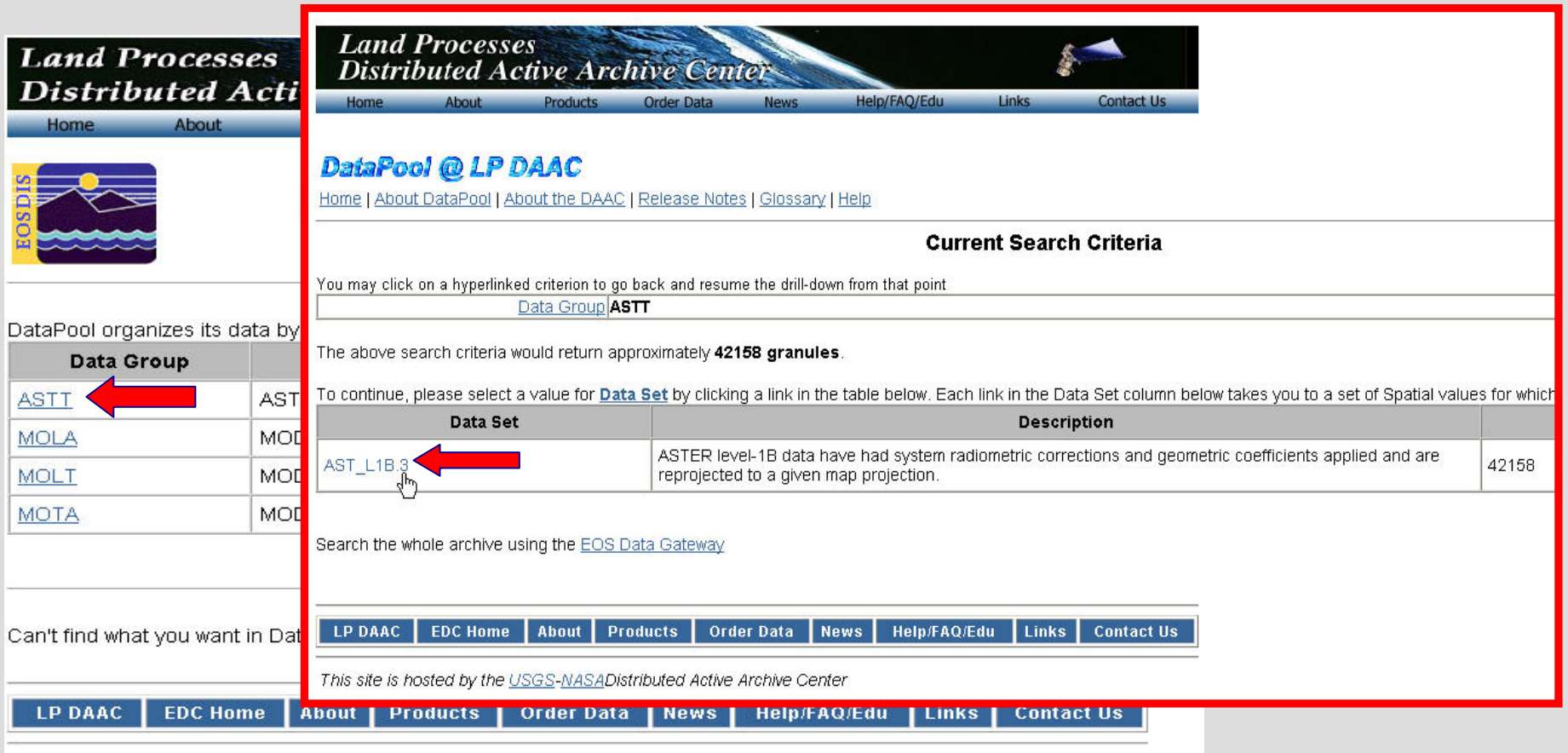
ASTER Search and Order

To begin your ASTER Search and Order:

- Select the ASTER instrument from the link in the “Data Group” column.
- Select the AST_L1B.3 link in the Data Set column.



ASTER Search and Order (cont.)

Using Spatial Constraint Options

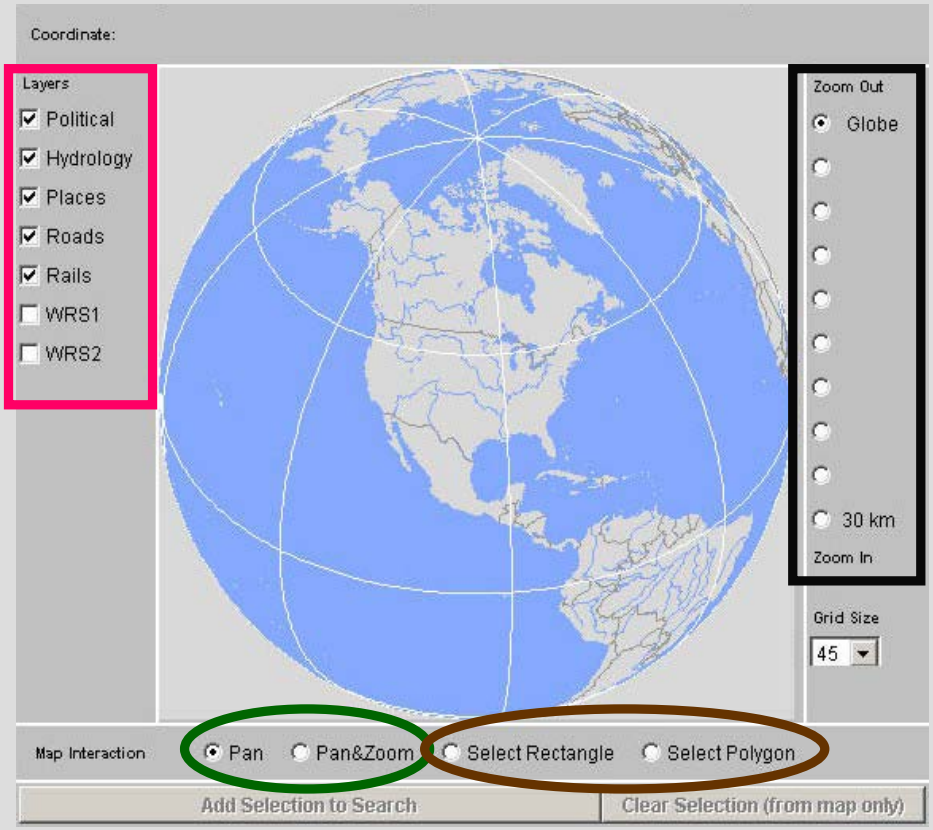
Option 1: Select area of interest from map

Option 2: Select area of interest using coordinates

ASTER Search and Order (cont.)

OPTION 1: Select area of interest from the map.

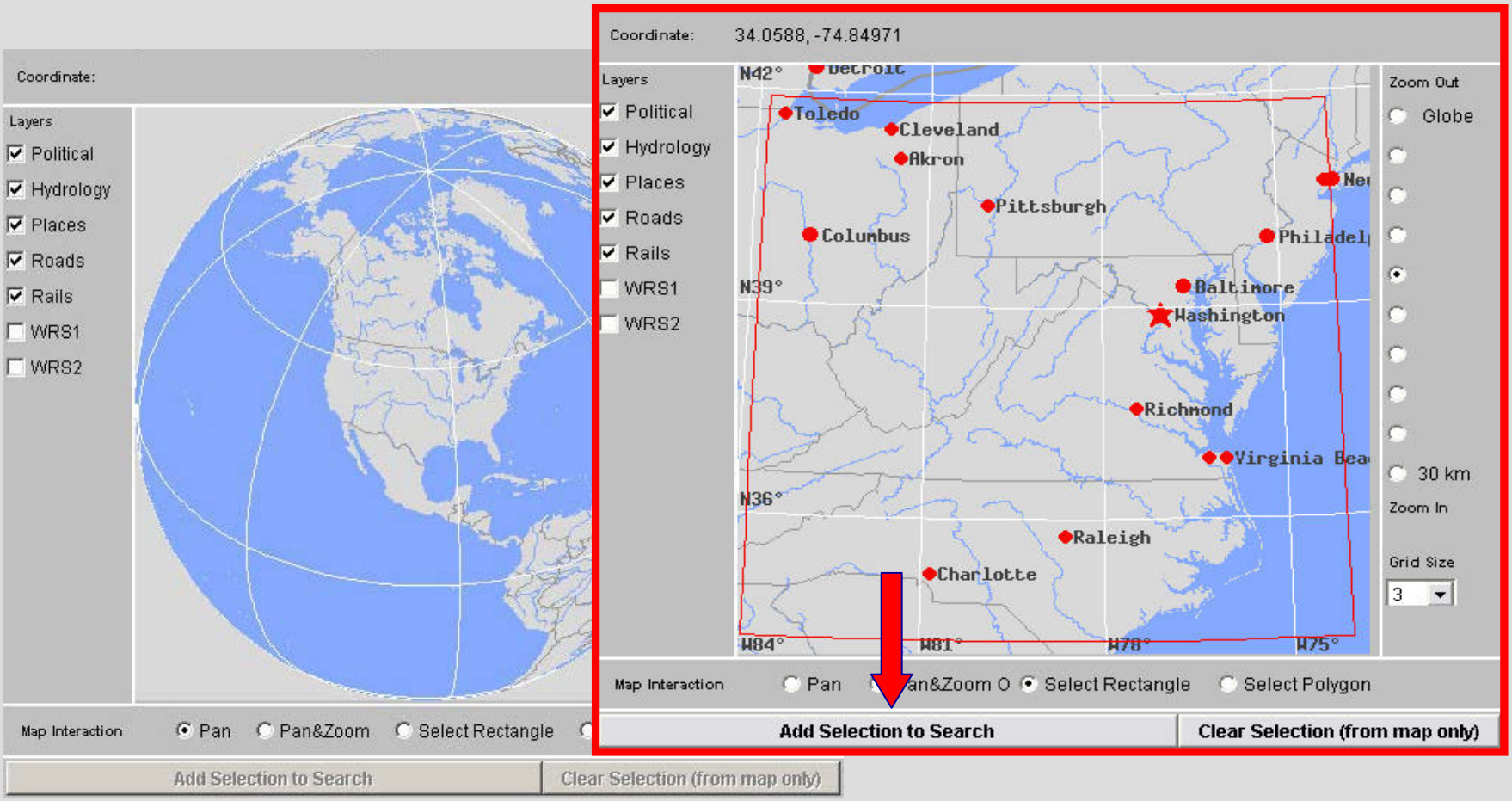
- Use layer boxes to display map features.
- Use zoom feature to view map up to 30 km.
- Use “Pan” and “Pan&Zoom” features to rotate map and see greater detail.
- Use “Select Rectangle” and “Select Polygon” features to select your area of interest.



ASTER Search and Order (cont.)

OPTION 1: Select area of interest from the map.

- Use the “Select Rectangle” feature to click and drag a rectangle over your area of interest.
- Use the “Select Polygon” feature to click points around your area of interest.
- Once you have selected your area of interest, click the “Add Selection to Search” button.

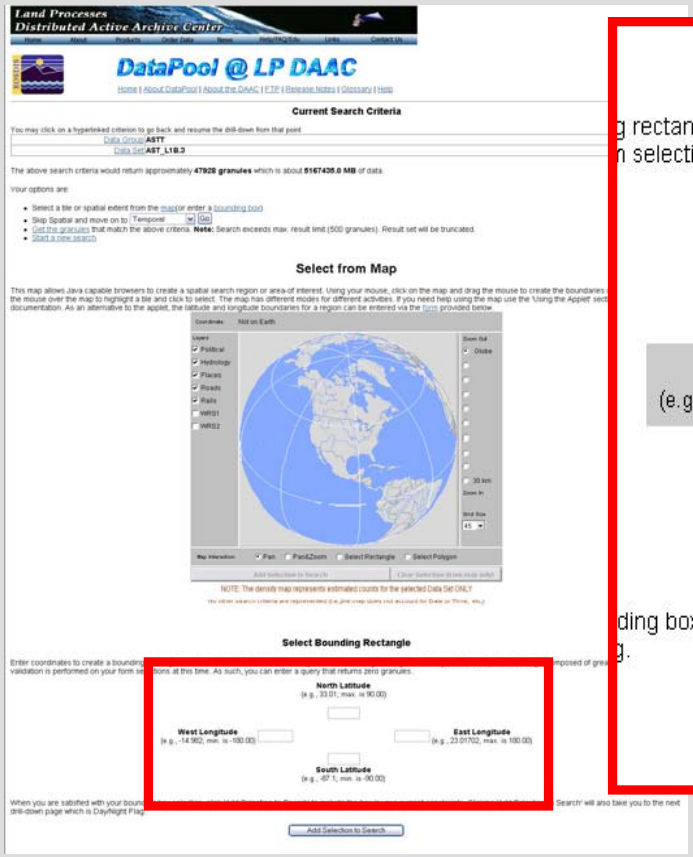


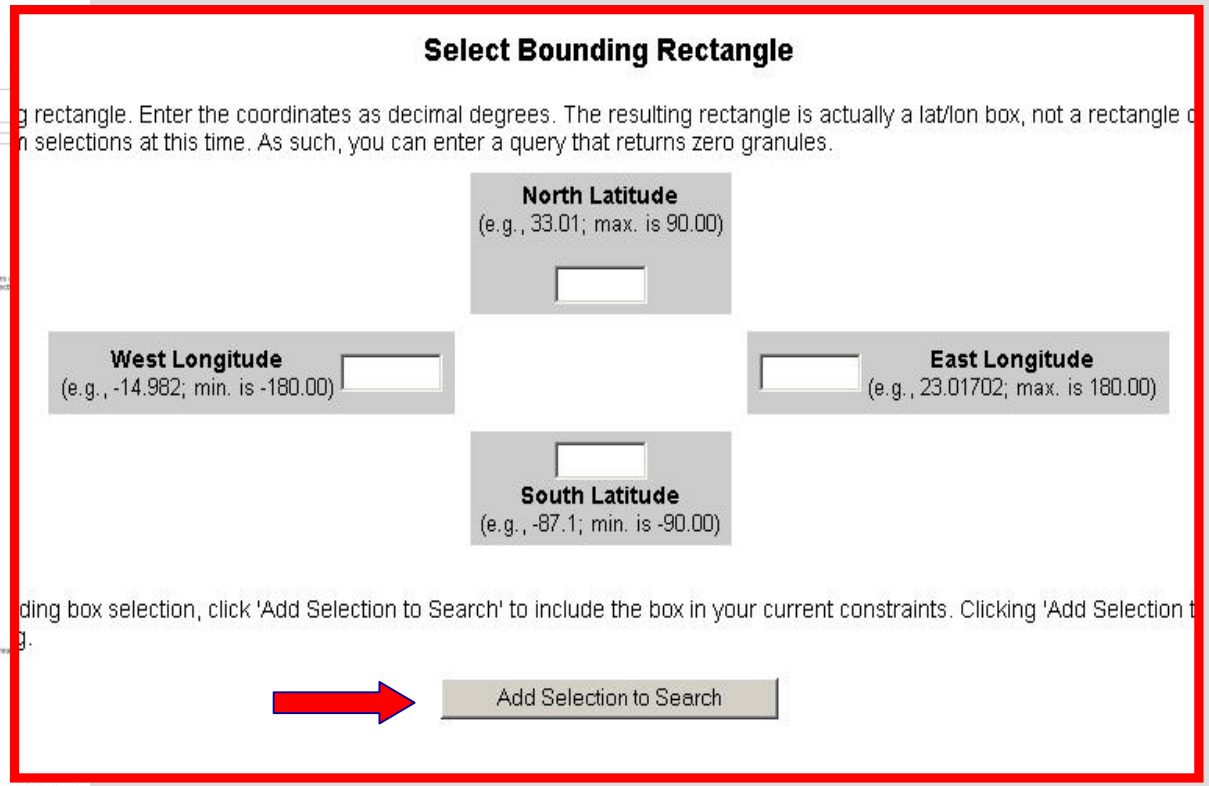
ASTER Search and Order (cont.)

Option 2: Select area of interest using coordinates.

- Enter your coordinates of your area of interest to create a bounding rectangle.
- Once you have selected your area of interest, click the “Add Selection to Search” button.

NOTE: Remember to include a “-” (hyphen) in front of longitude coordinates in the Western Hemisphere and latitude coordinates in the Southern Hemisphere.

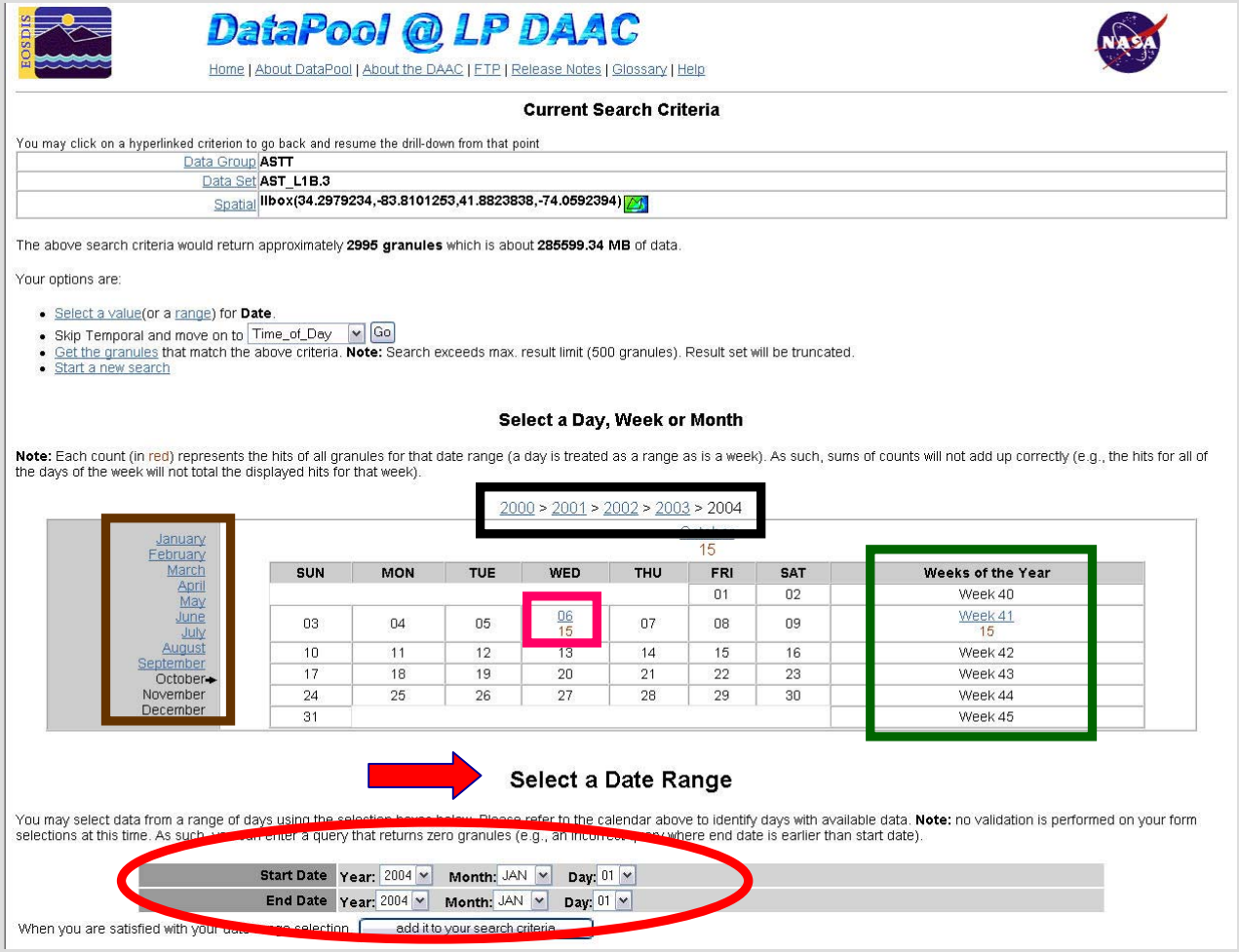




ASTER Search and Order (cont.)

To select a date or a date range:

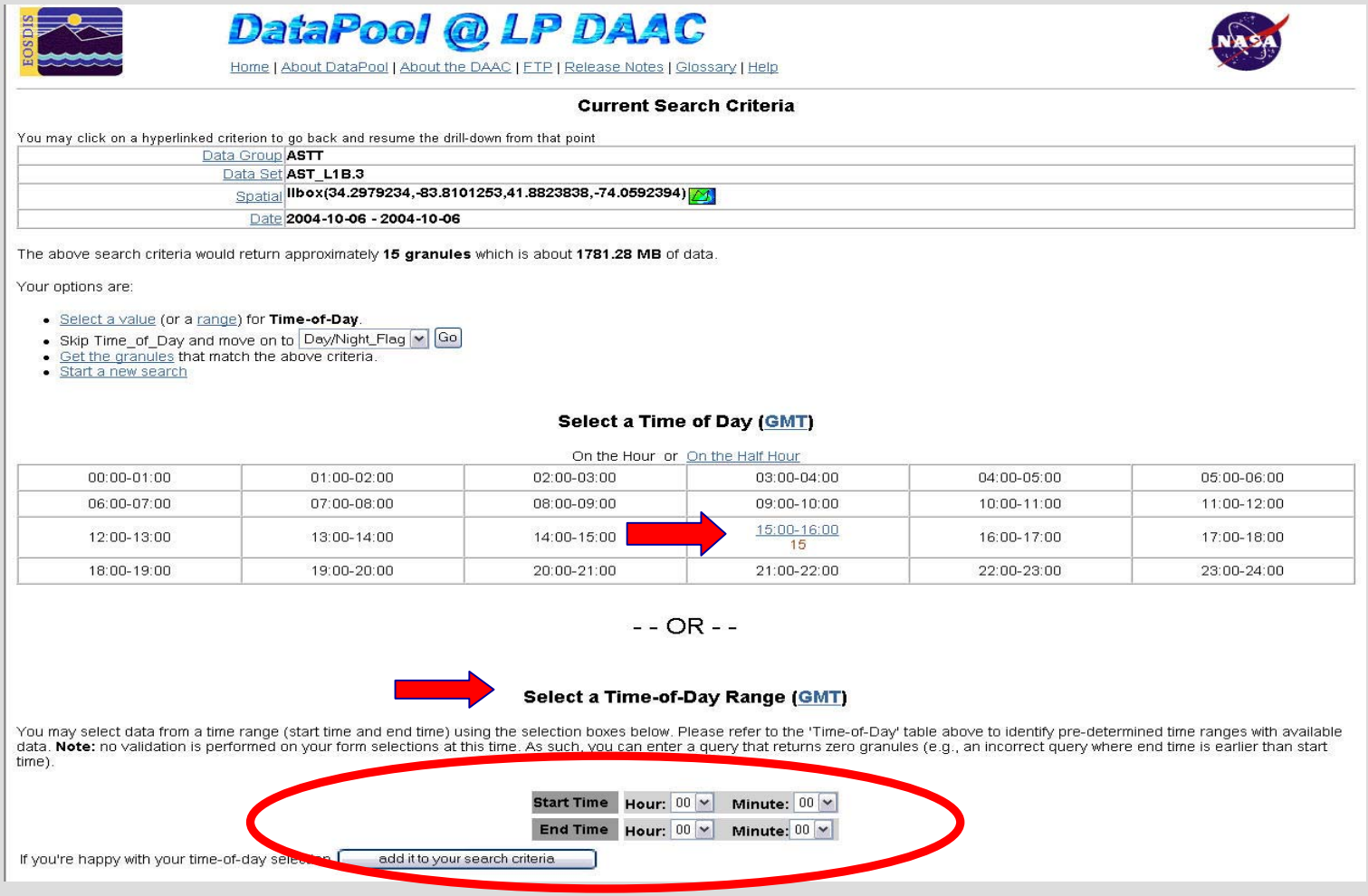
- Use the links to select day, week, month, and year.
- Use the drop down boxes under “Select a Date Range” to select a start date and end date. Click the “add it to your search criteria” button after selecting the date range.



ASTER Search and Order (cont.)

To select a time or a time range:

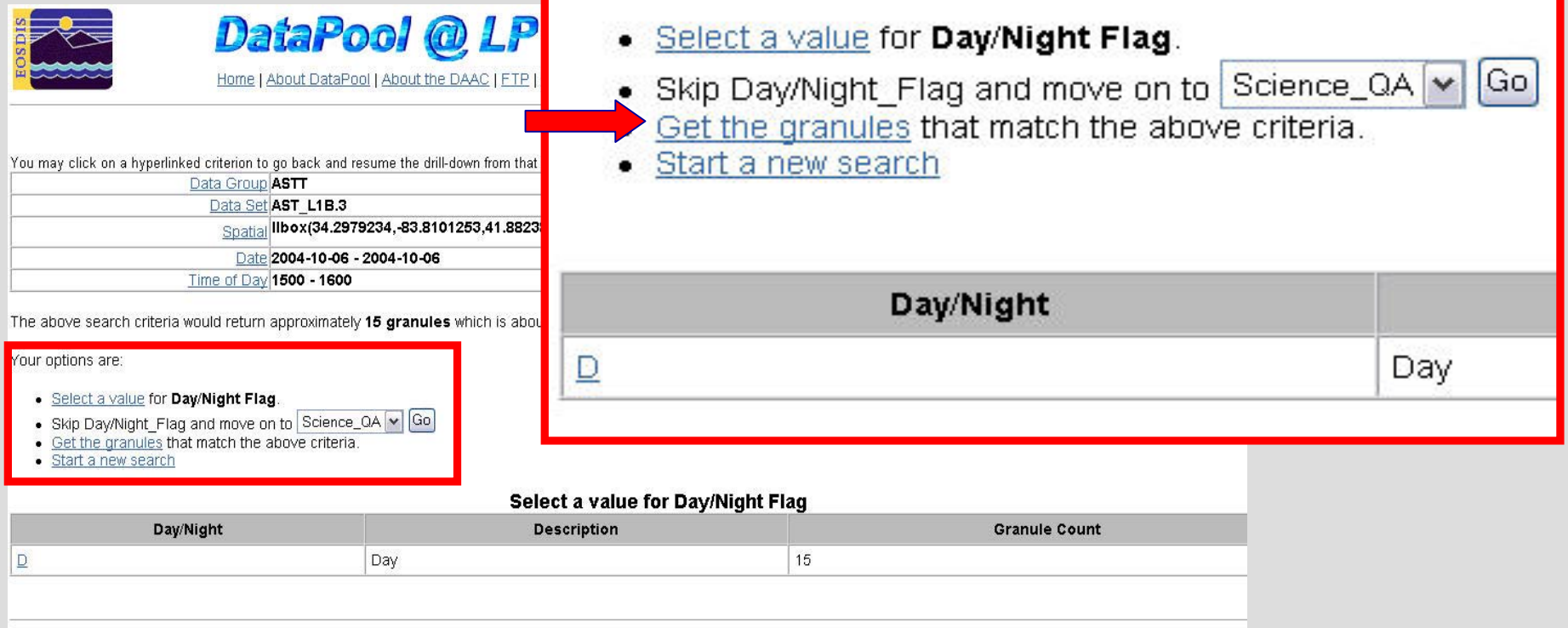
- Use the links to select the time of the day.
- Use the drop down boxes under “Select a Time of Day Range” to select a start time and end time. Click the “add it to your search criteria” button after selecting the time range.



ASTER Search and Order (cont.)

Selecting the Day/Night Flag:

- The Day/Night Flag can be D (day), N (night), B (both), or X (not designated).
- If there is a single value listed under the Day/Night column, click the “Get the granules” link.
- If there are multiple values listed under the Day/Night column, select the desired Day/Night flag then select “Get the granules” on the next page.



ASTER Search and Order (cont.)

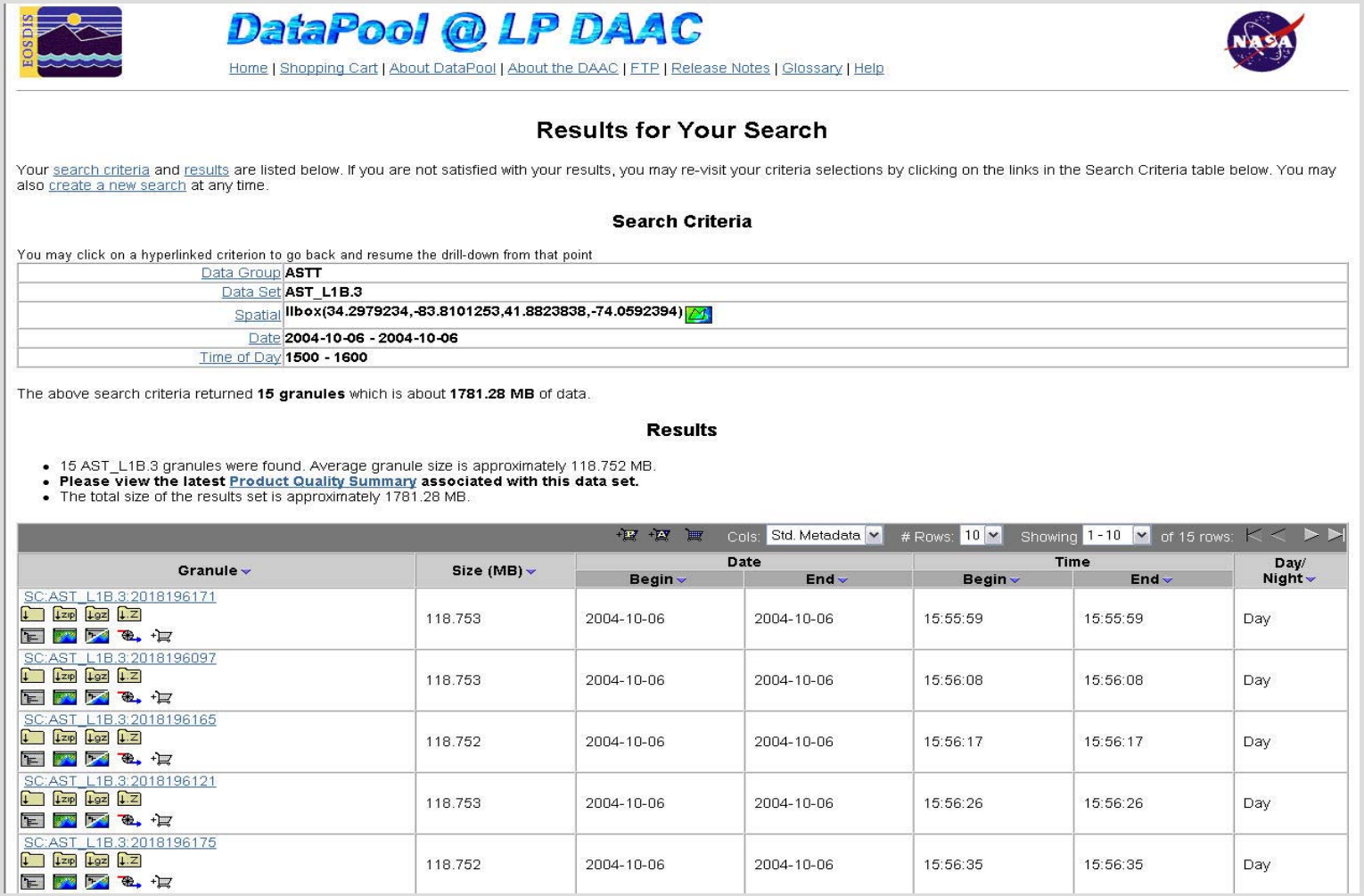
After you receive the results of your search, you may download the granules individually, or you may place selected granules in the shopping cart and order all of the selected granules at one time.

If available, use the Conversion Tool to convert data and order the granules individually. In the shopping cart, you may choose Conversion Tool for individual granules or apply it to all granules.

The following pages detail ordering granules individually or through the shopping cart.

ASTER Search and Order (cont.)

Using the Tools on the Results Page



DataPool @ LP DAAC

Home | Shopping Cart | About DataPool | About the DAAC | FTP | Release Notes | Glossary | Help

Results for Your Search

Your search criteria and results are listed below. If you are not satisfied with your results, you may re-visit your criteria selections by clicking on the links in the Search Criteria table below. You may also create a new search at any time.

Search Criteria

You may click on a hyperlinked criterion to go back and resume the drill-down from that point

Data Group	**ASTT**
Data Set	**AST_L1B.3**
Spatial	**llbox(34.2979234,-83.8101253,41.8823838,-74.0592394)**
Date	**2004-10-06 - 2004-10-06**
Time of Day	**1500 - 1600**

The above search criteria returned **15 granules** which is about **1781.28 MB** of data.

Results

- 15 AST_L1B.3 granules were found. Average granule size is approximately 118.752 MB.
- **Please view the latest Product Quality Summary associated with this data set.**
- The total size of the results set is approximately 1781.28 MB.

Cols: Std. Metadata # Rows: 10 Showing 1 - 10 of 15 rows:

Granule	Size (MB)	Date		Time		Day/ Night
		Begin	End	Begin	End	
SC:AST_L1B.3:2018196171	118.753	2004-10-06	2004-10-06	15:55:59	15:55:59	Day
SC:AST_L1B.3:2018196097	118.753	2004-10-06	2004-10-06	15:56:08	15:56:08	Day
SC:AST_L1B.3:2018196165	118.752	2004-10-06	2004-10-06	15:56:17	15:56:17	Day
SC:AST_L1B.3:2018196121	118.753	2004-10-06	2004-10-06	15:56:26	15:56:26	Day
SC:AST_L1B.3:2018196175	118.752	2004-10-06	2004-10-06	15:56:35	15:56:35	Day

NOTE: The Granule ID from the LP DAAC Data Pool is not the same as the Granule ID from the EOS Data Gateway.

ASTER Search and Order (cont.)

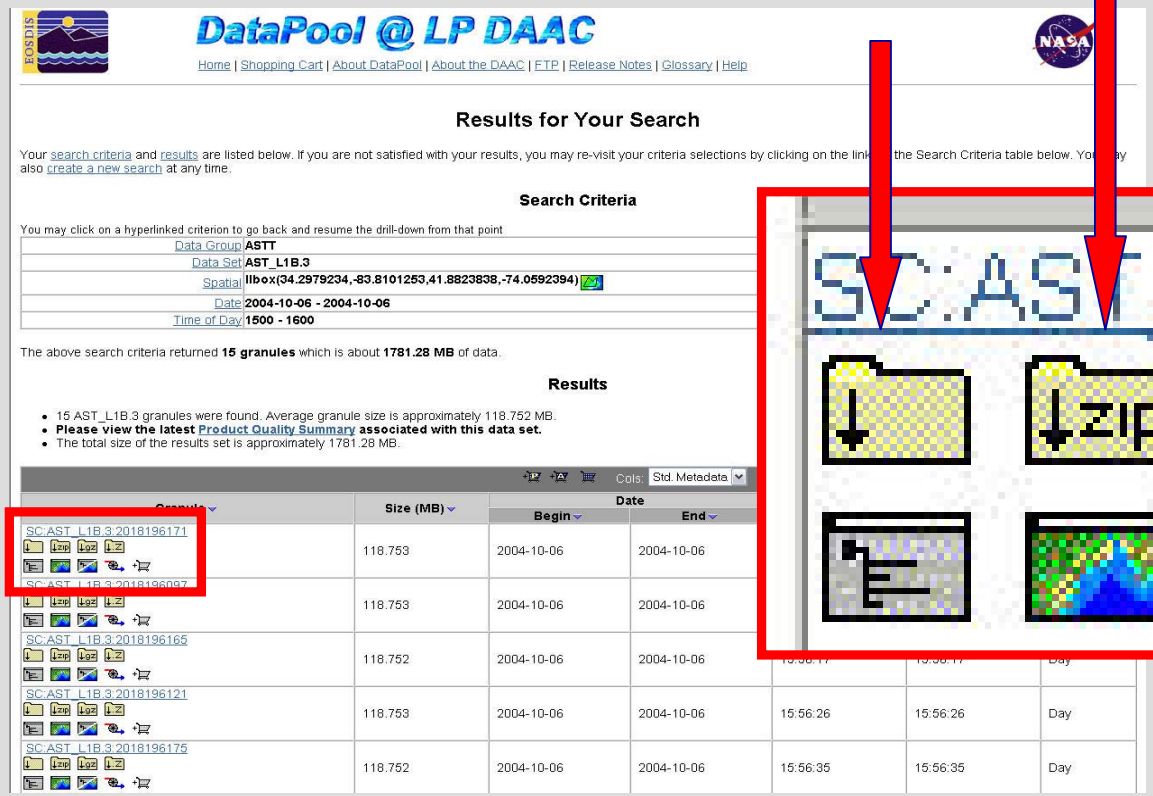
Selecting one of the individual folders allows immediate download of data.

UNIX compressed File

G-Zip compressed File

Zip compressed File

Uncompressed File



ASTER Search and Order (cont.)

Symbols on the Results Page

View Metadata

View Browse

View Metadata and Browse

Conversion Tool

Shopping Cart

ASTER Search and Order (cont.)

Using the Conversion Tool

Use the Conversion Tool to convert the format from a HDF file to a GeoTIFF file.

You may convert ASTER data to the Geographic projection.

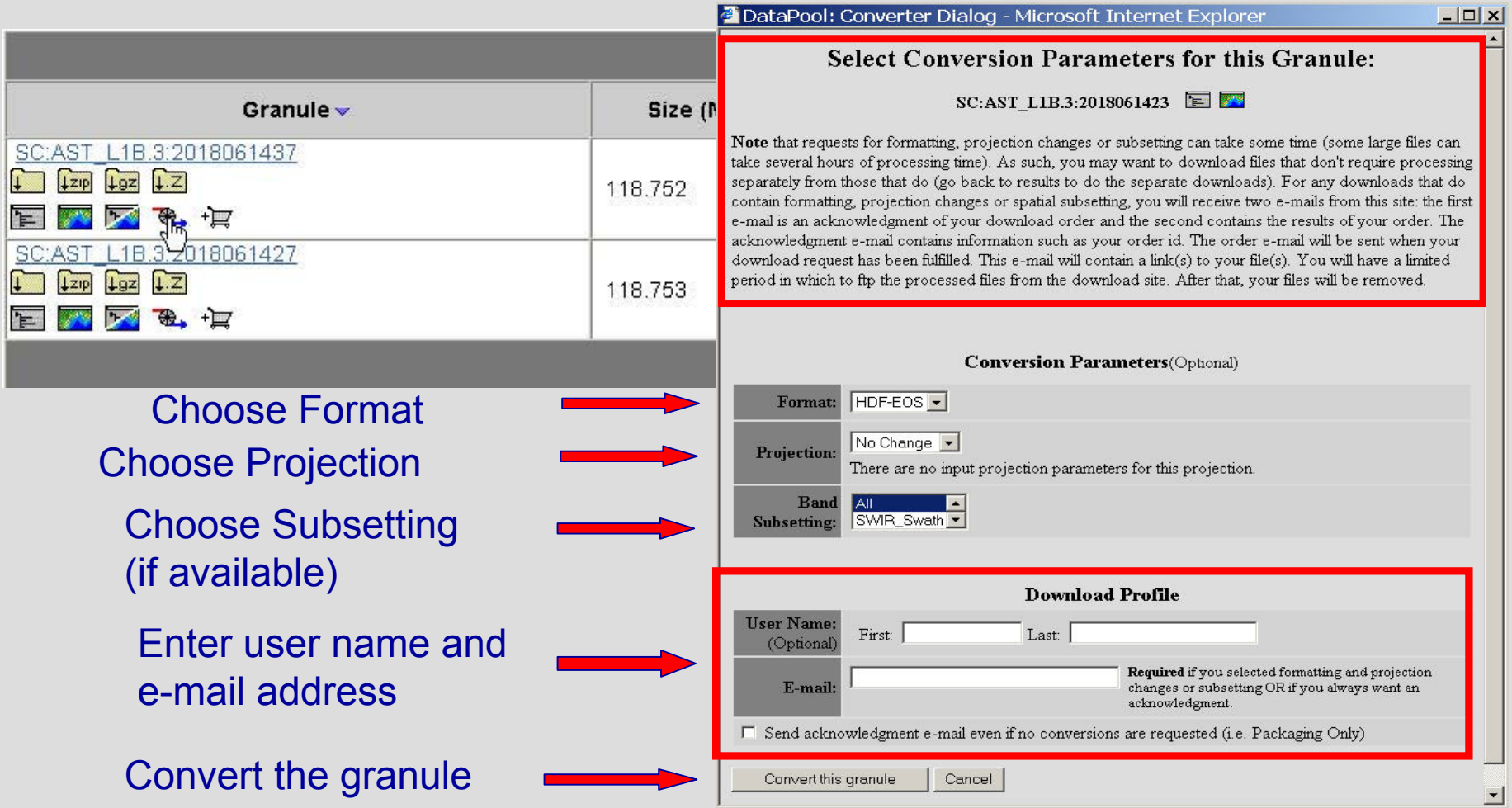
You may convert MODIS data to Geographic, Polar Stereographic, or UTM projections. Only selected MODIS data sets may be subsetted.

NOTE: The Conversion Tool divides the selected granule into separate files for each band.

ASTER Search and Order (cont.)

To apply the Conversion Tool to individual granules:

- Click the Conversion Tool icon.
- From the drop-down boxes, choose Format, Projection, and subsetting (if available). Enter your user name and e-mail address and click “Convert this granule.”

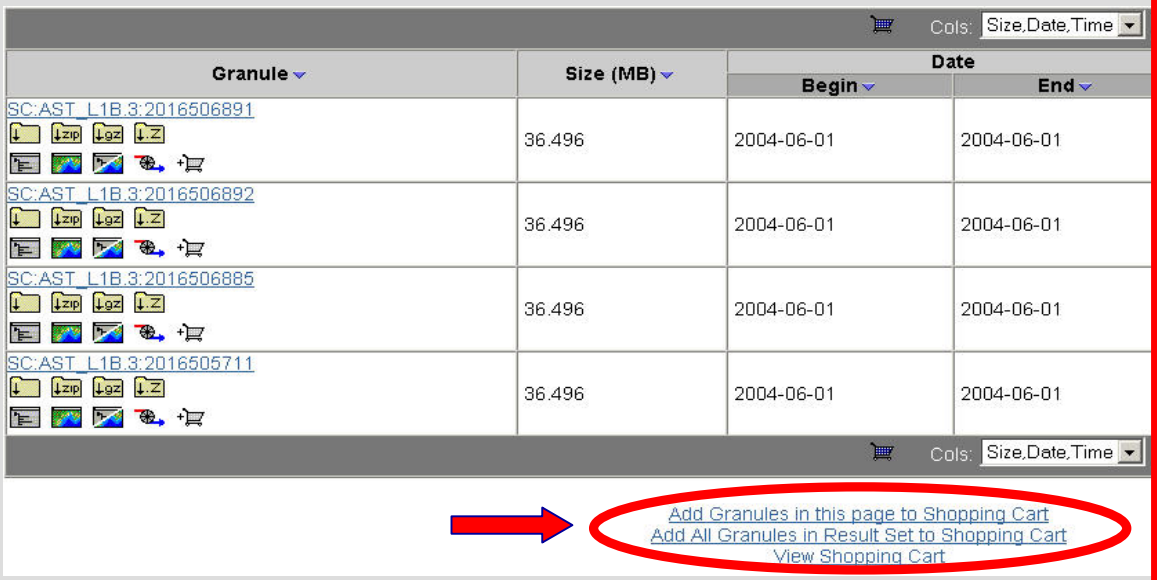


ASTER Search and Order (cont.)

Using the Shopping Basket

You may add granules to the Shopping Basket by selecting the granules individually or by using the Shopping Basket options at the bottom of the page.

NOTE: A red check denotes granules added to your shopping basket.

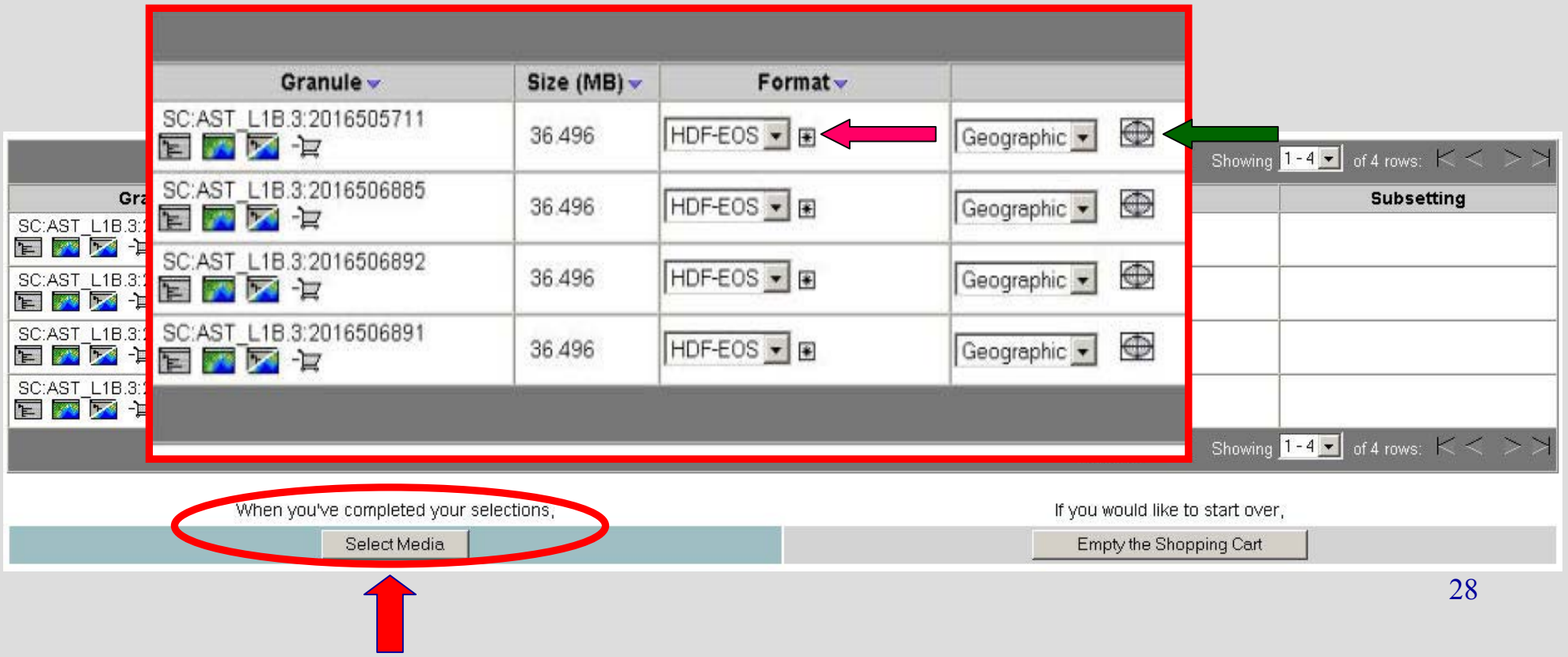


ASTER Search and Order (cont.)

Viewing the Shopping Basket

You may change the format and projection of individual granules with the appropriate drop-down boxes or use the format icon or the projection icon to apply the change to all of the granules in the shopping basket. When you are finished making your selections, click the "Select Media" button.

NOTE: The subsetting option for an ASTER granule is only available if the bands from at least two telescopes were acquired.

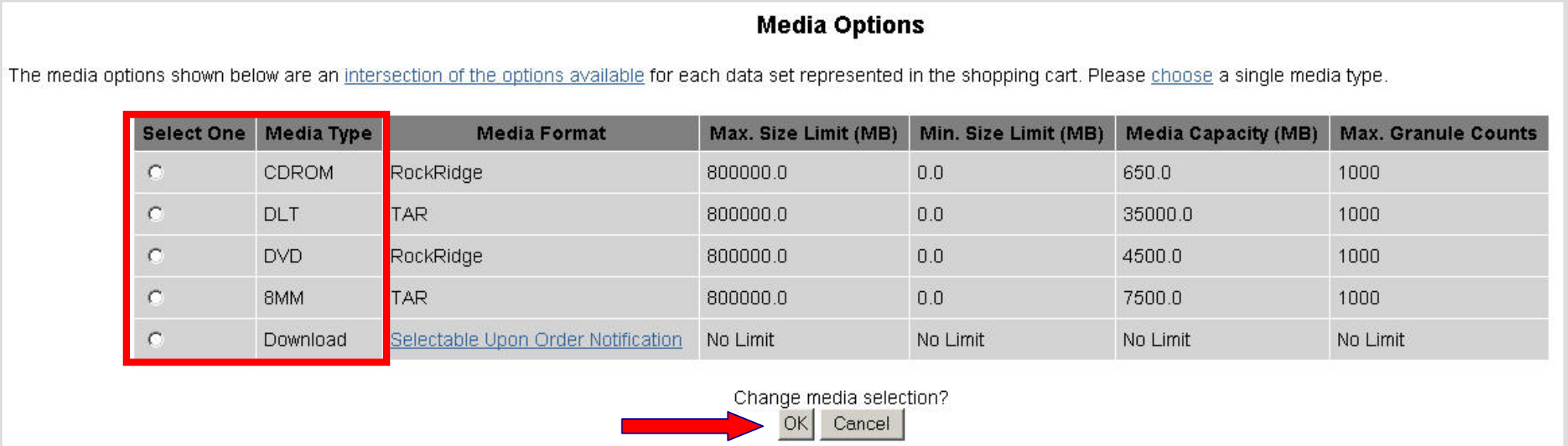


ASTER Search and Order (cont.)

To Complete a media order:

- Select the media option for your data by using the radio buttons in the far left column. Click the "OK" button after you have made your media selection.

NOTE: FTP download is the only available option to retrieve the data when the conversion tool is used.



Media Options

The media options shown below are an intersection of the options available for each data set represented in the shopping cart. Please choose a single media type.

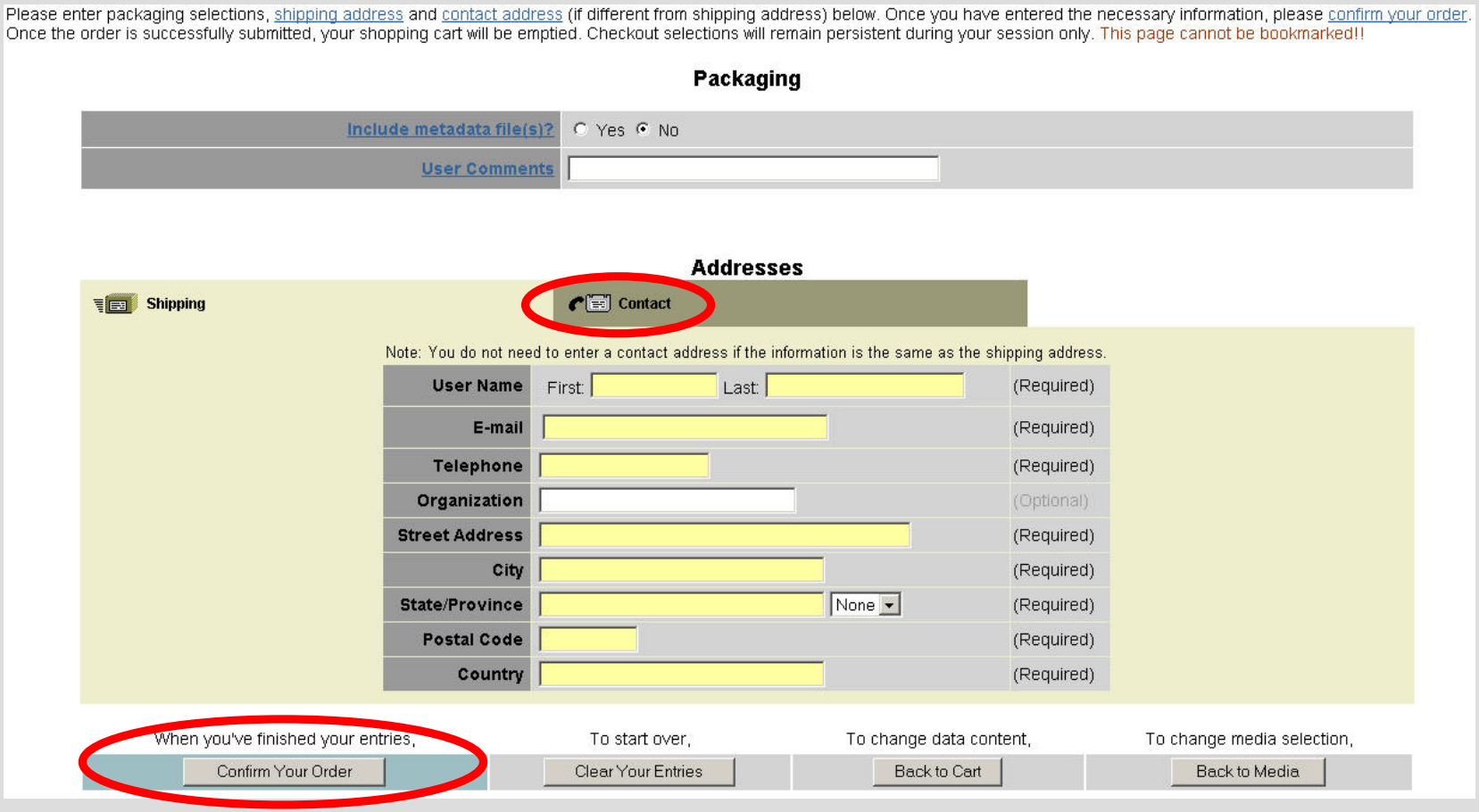
Select One	Media Type	Media Format	Max. Size Limit (MB)	Min. Size Limit (MB)	Media Capacity (MB)	Max. Granule Counts
○	CDROM	RockRidge	800000.0	0.0	650.0	1000
○	DLT	TAR	800000.0	0.0	35000.0	1000
○	DVD	RockRidge	800000.0	0.0	4500.0	1000
○	8MM	TAR	800000.0	0.0	7500.0	1000
○	Download	Selectable Upon Order Notification	No Limit	No Limit	No Limit	No Limit

Change media selection?

OK Cancel

ASTER Search and Order (cont.)

- Complete the required address information. You may use the contact icon if your shipping address is different than your contact address.
- Click the "Confirm Your Order" button after you have entered your address information.



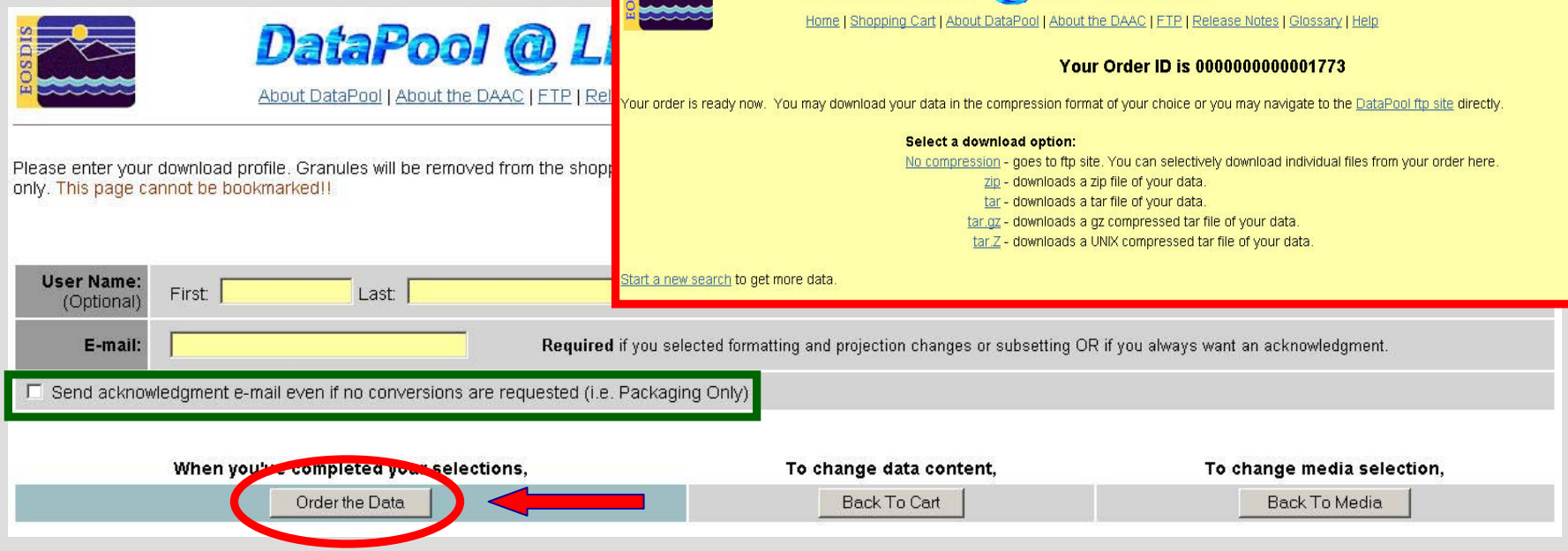
ASTER Search and Order (cont.)

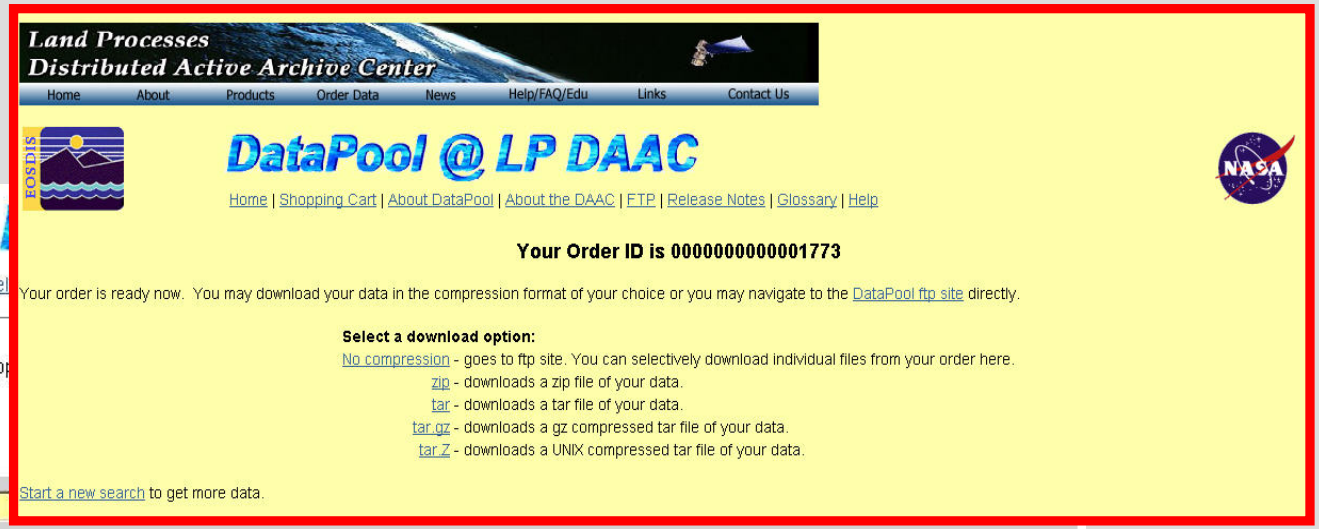
- Review your order on the “Confirm Your Order” page and click the “Please Submit Your Order” button if the information is correct.
- After you submit your order, the order acknowledgment screen will display.

ASTER Search and Order (cont.)

To complete an order through FTP download:

- Complete the download profile and check the acknowledgment box for e-mail notification.
- Click the "Order the Data" button after you have completed the form.
- An order confirmation page will appear after you have ordered your data.





ASTER Search and Order (cont.)

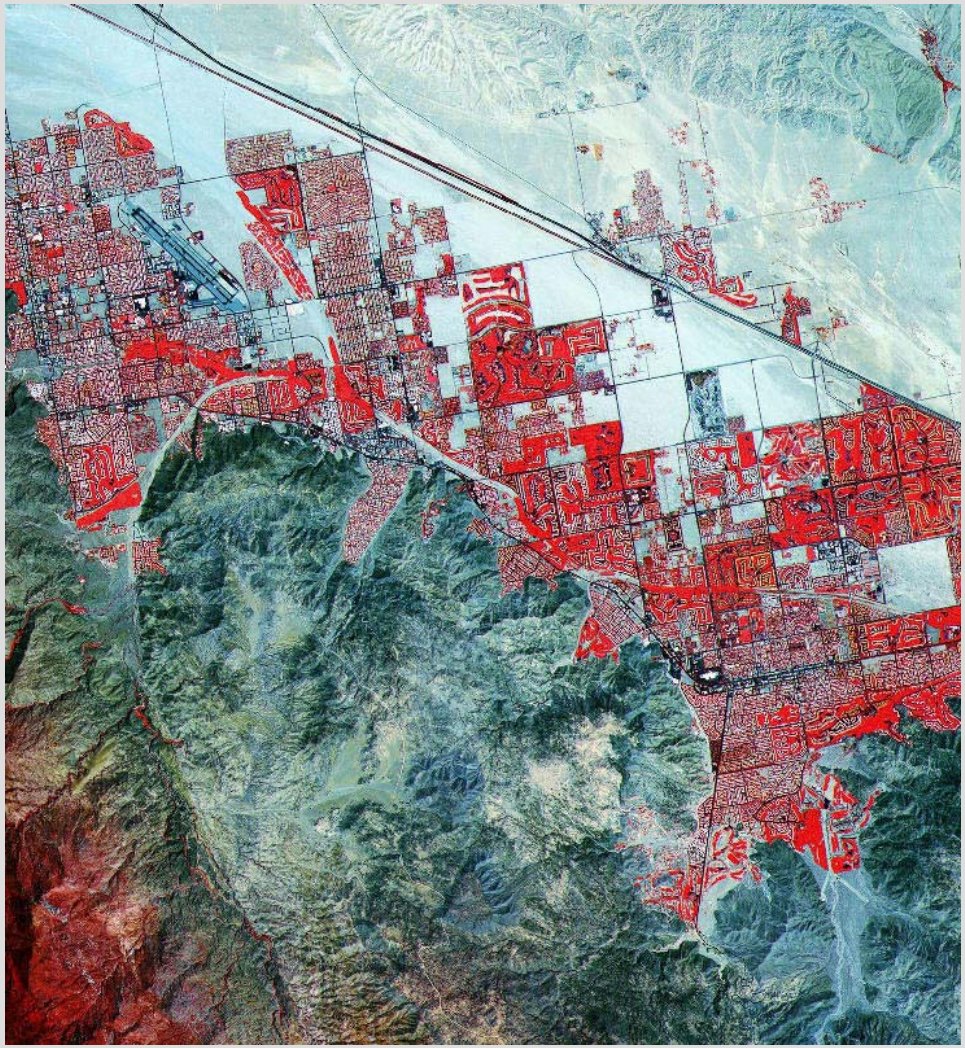
Please choose from the following links to continue the LP DAAC Data Pool tutorial:

MODIS Search and Order

Direct FTP Access

Land Processes DAAC Contact Information

Return to Index



ASTER L1B granule of Palm Beach, California

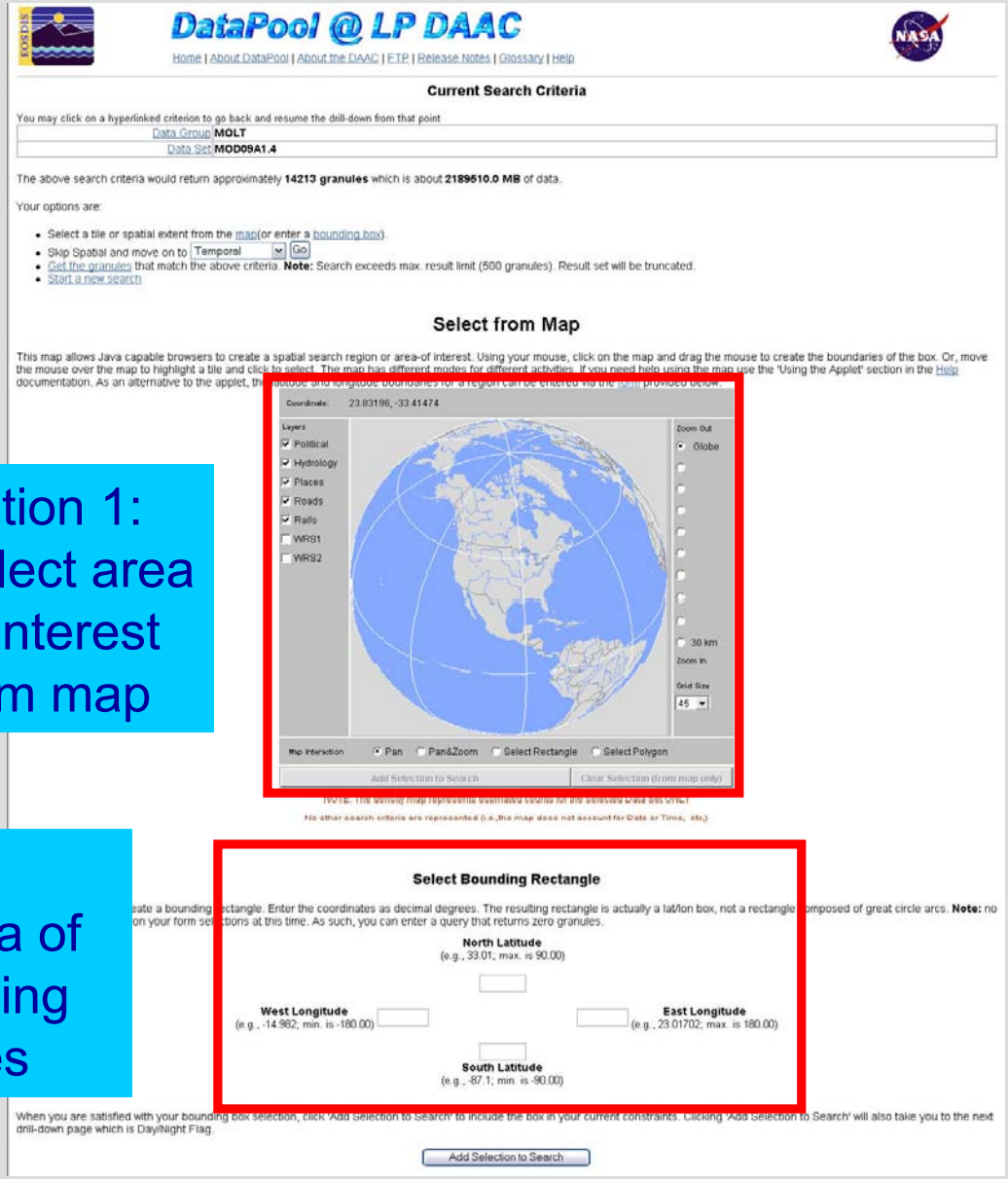
MODIS Search and Order

To begin your MODIS Search and Order:

- Select the desired MODIS instrument by using the link in the “Data Group” column (the tutorial will detail an order from the MOLT data group).
- Select the desired MODIS data set in the Data Set column. Click here for MODIS data set descriptions.

MODIS Search and Order (cont.)

Using Spatial Constraint Options



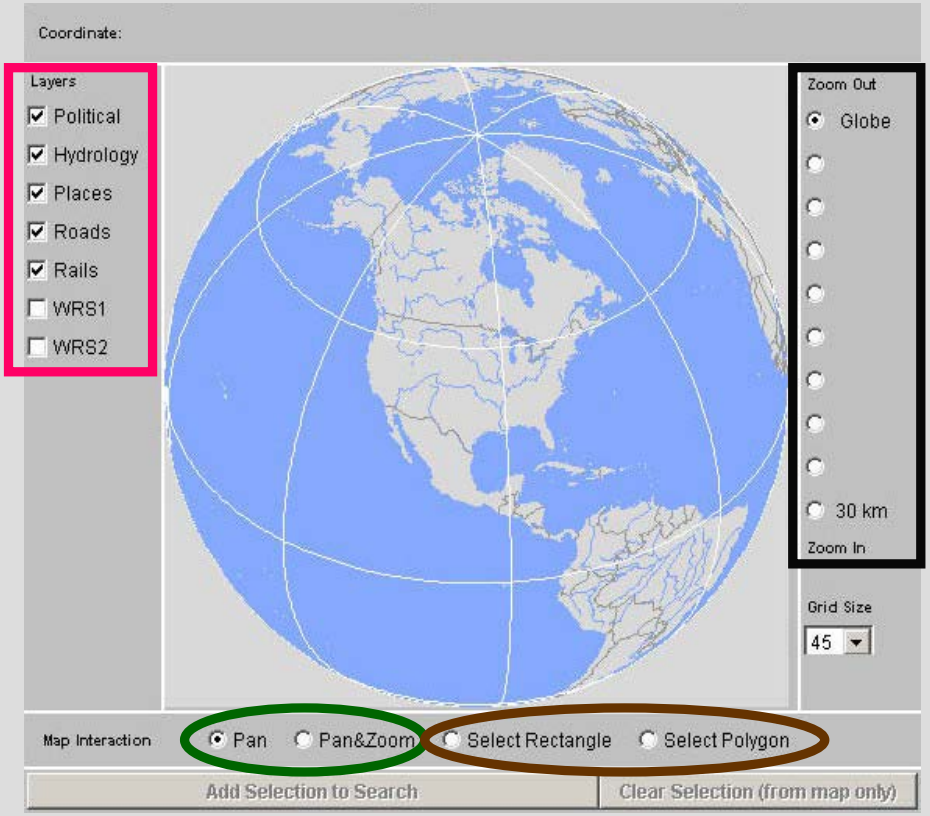
Option 1: Select area of interest from map

Option 2: Select area of interest using coordinates

MODIS Search and Order (cont.)

OPTION 1: Select area of interest from the map.

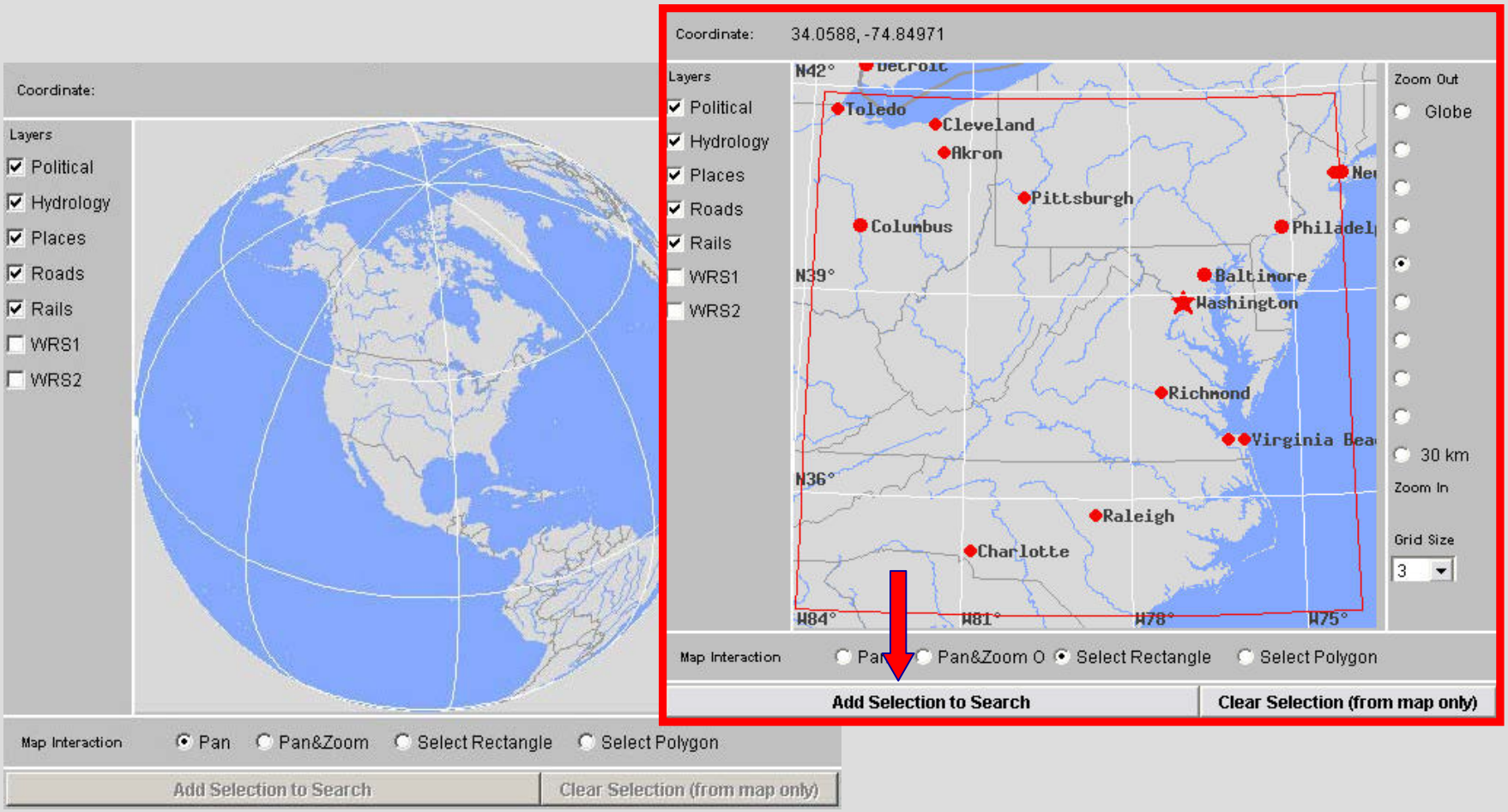
- Use layer boxes to display map features.
- Use zoom feature to view map up to 30 km.
- Use “Pan” and “Pan&Zoom” features to rotate map and see greater detail.
- Use “Select Rectangle” and “Select Polygon” features to select your area of interest.



MODIS Search and Order (cont.)

OPTION 1: Select area of interest from the map.

- Use the “Select Rectangle” feature to click and drag a rectangle covering your area of interest.
- Use the “Select Polygon” feature to click points around your area of interest.
- Once you have selected your area of interest, click the “Add Selection to Search” button.

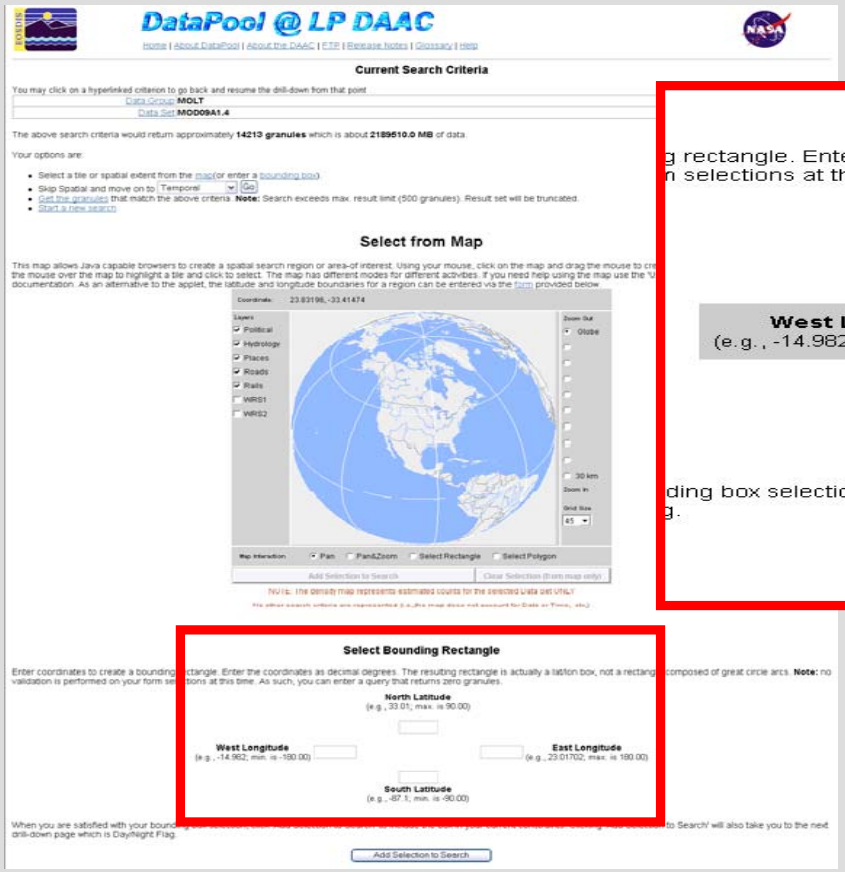


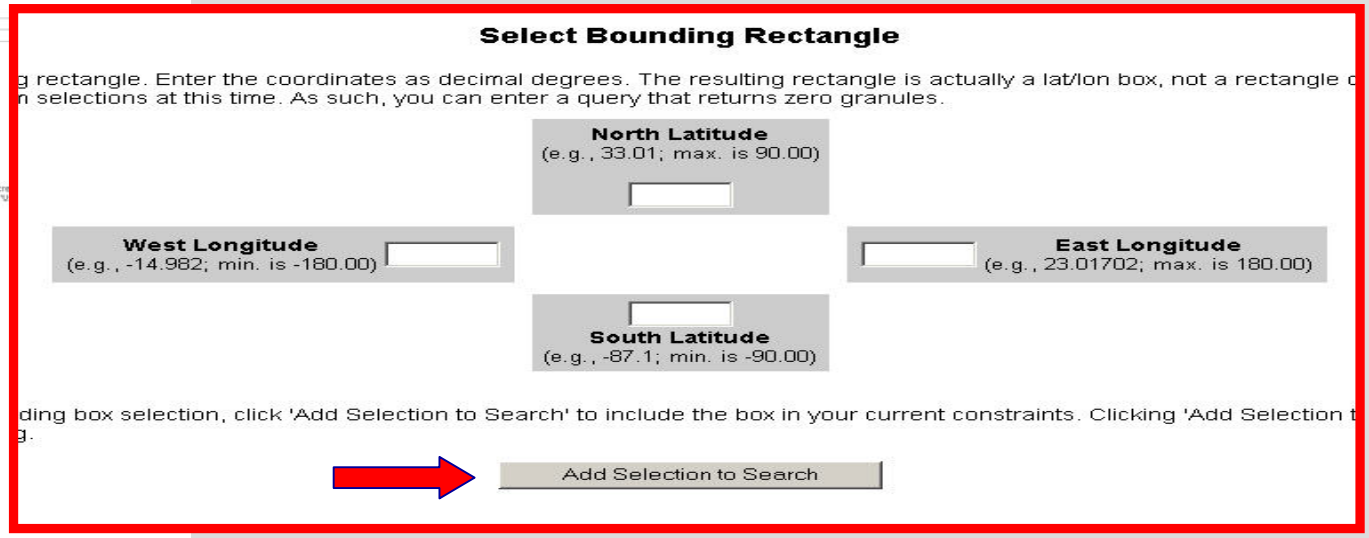
MODIS Search and Order (cont.)

Option 2: Select area of interest using coordinates.

- Enter the coordinates of your area of interest to create a bounding rectangle.
- Once you have selected your area of interest, click the “Add Selection to Search” button.

NOTE: Remember to include a “-” (hyphen) in front of longitude coordinates in the Western Hemisphere and latitude coordinates in the Southern Hemisphere.

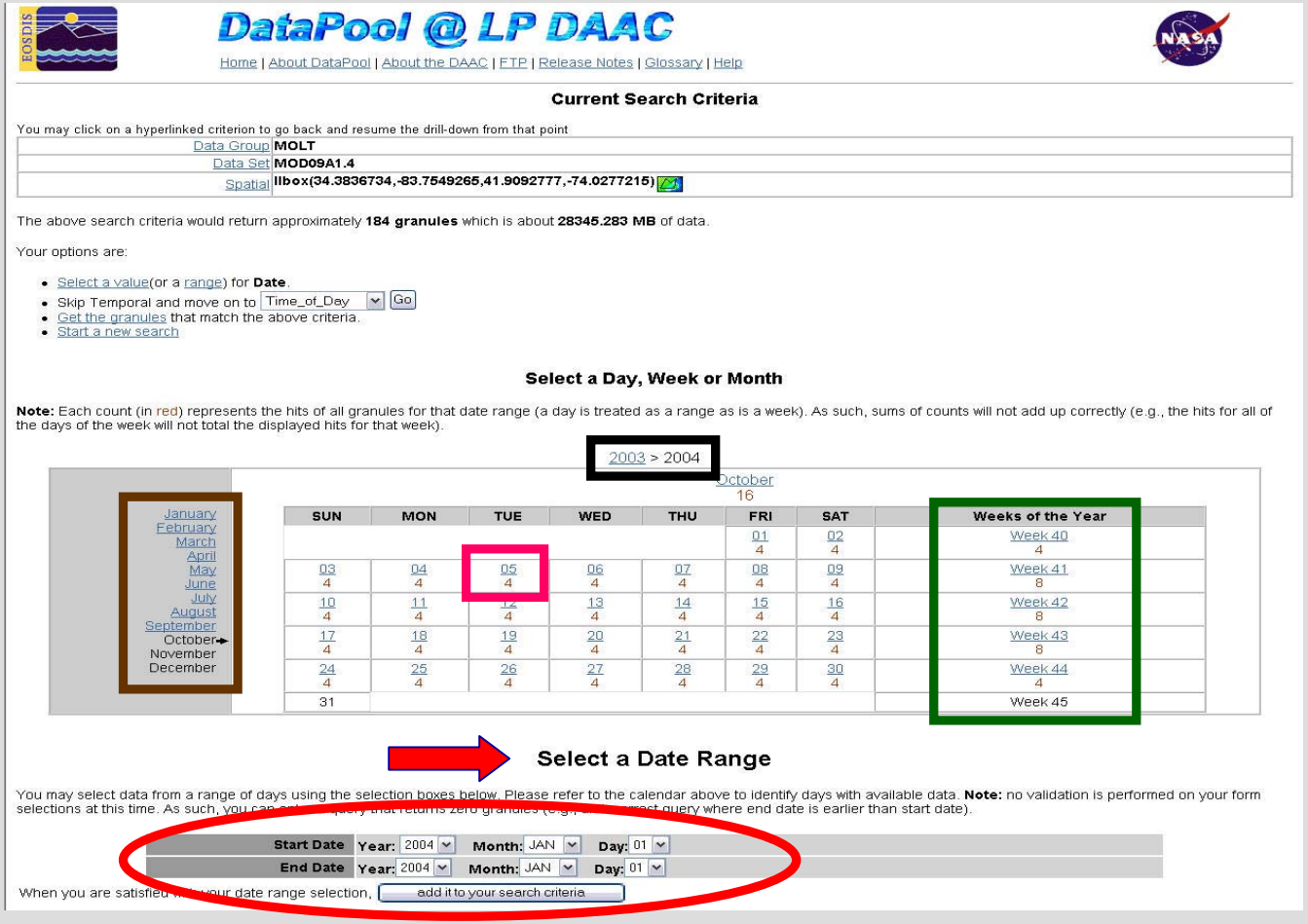




MODIS Search and Order (cont.)

To select a date or a date range:

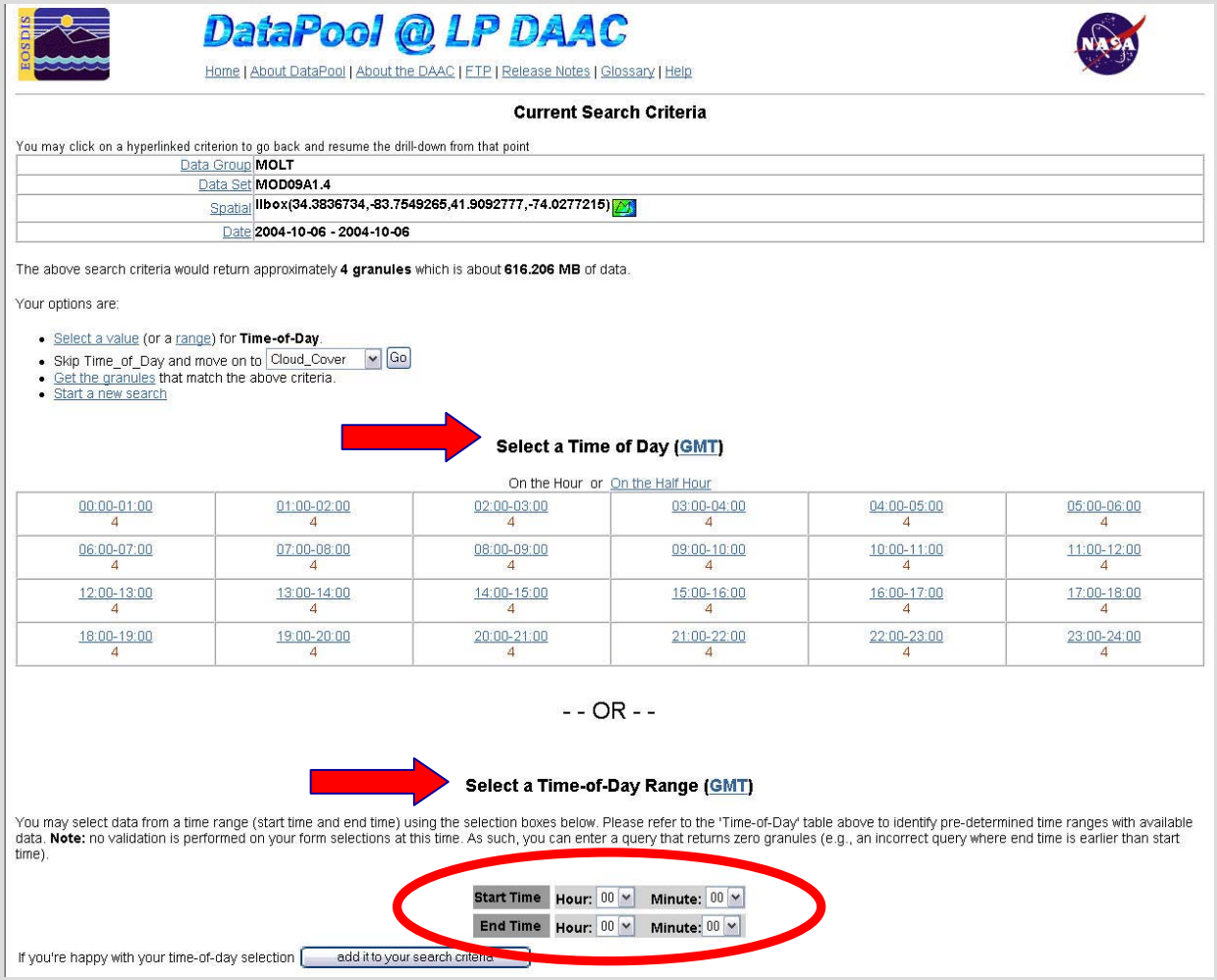
- Use the links to select day, week, month, and year.
- Use the drop down boxes under “Select a Date Range” to select a start date and end date. Click the “add it to your search criteria” button after selecting the date range.



MODIS Search and Order (cont.)

To select a time or a time range:

- Use the links to select the time of the day.
- Use the drop down boxes under “Select a Time of Day Range” to select a start time and end time. Click the “add it to your search criteria” button after selecting the time range.

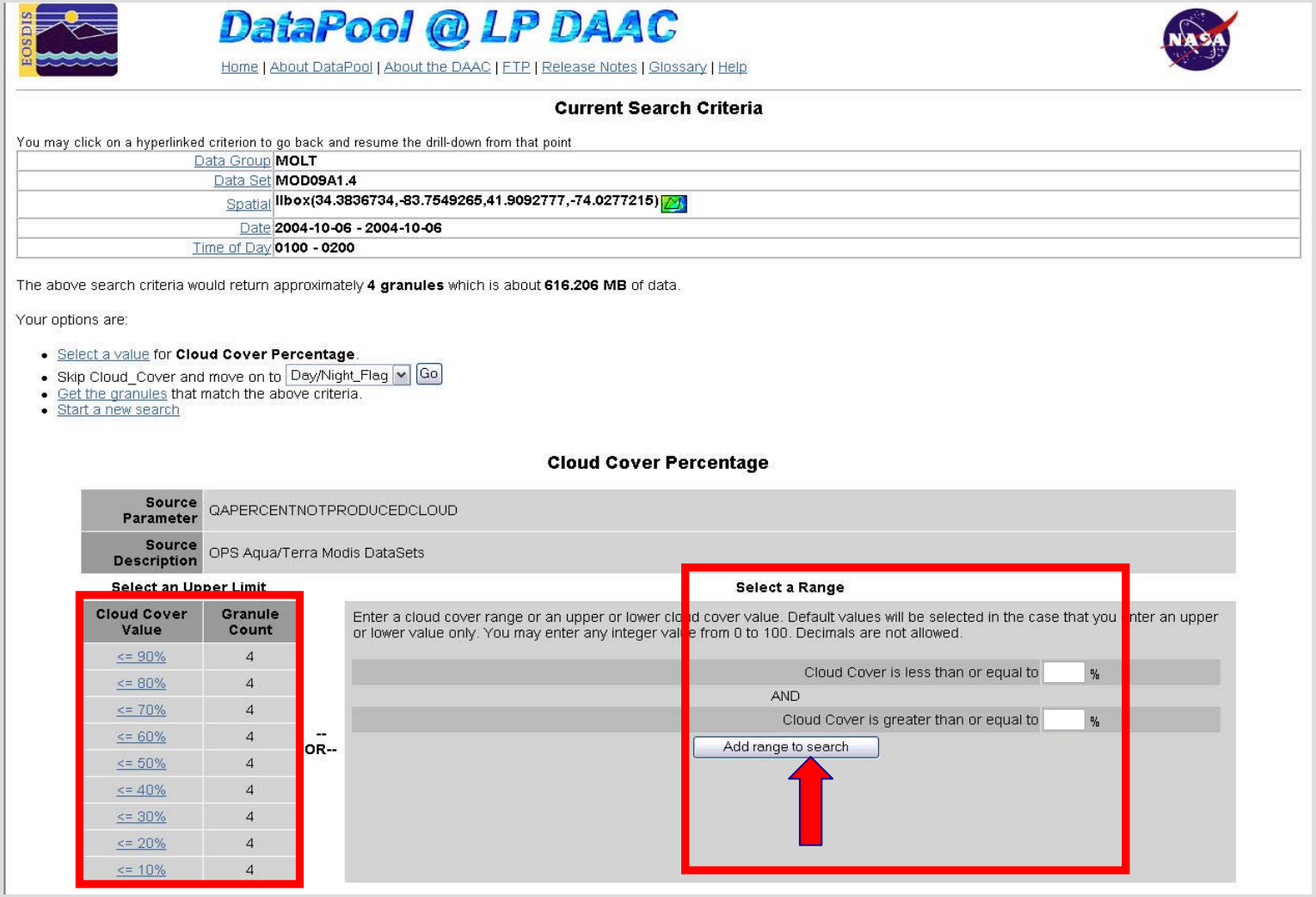


MODIS Search and Order (cont.)

To select a cloud cover value or a cloud cover range:

- Use the links to select the upper limit percentage of the desired cloud cover value.
- Use the drop down boxes under “Select a Range” to select a cloud cover value.

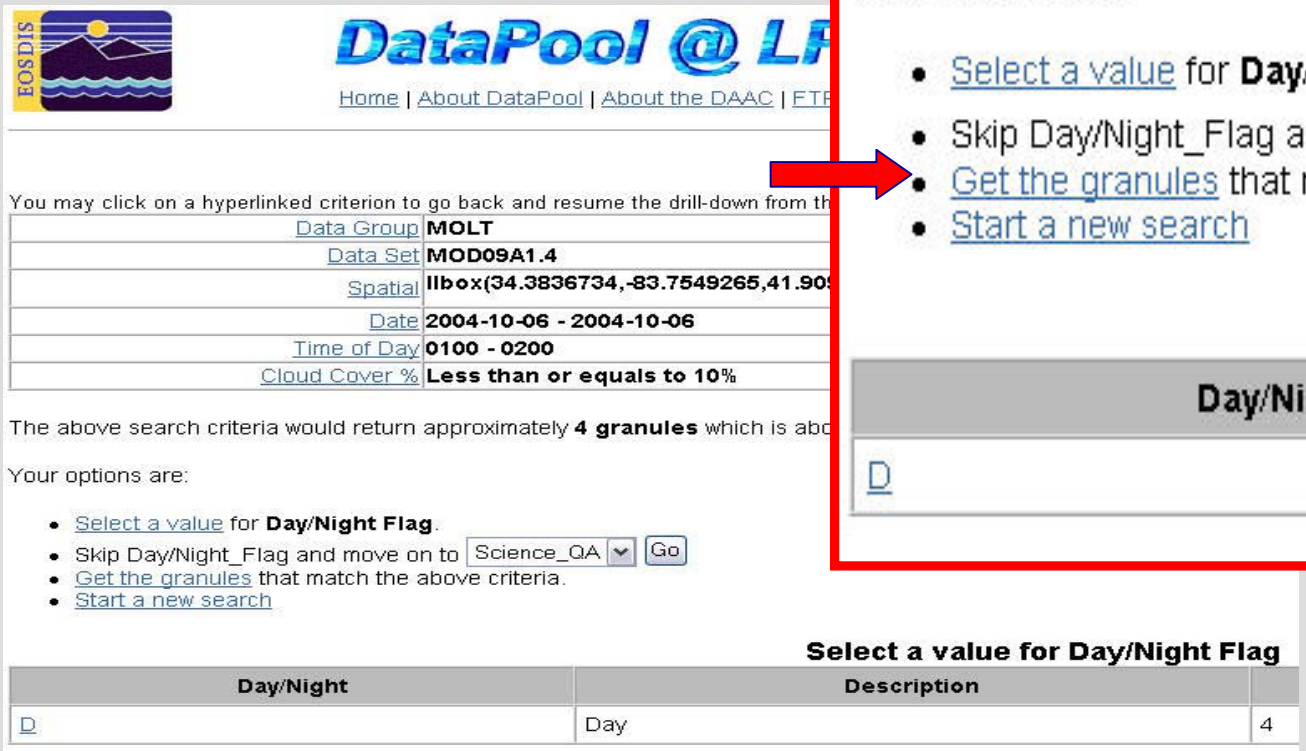
Click the “Add range to search” button after selecting the time range.



MODIS Search and Order (cont.)

Selecting the Day/Night Flag:

- The Day/Night Flag can be D (day), N (night), B (both), or X (not designated).
- If there is a single value listed under the Day/Night column, click the “Get the granules” link.
- If there are multiple values listed under the Day/Night column, select the desired Day/Night flag then select “Get the granules” on the next page.



MODIS Search and Order (cont.)

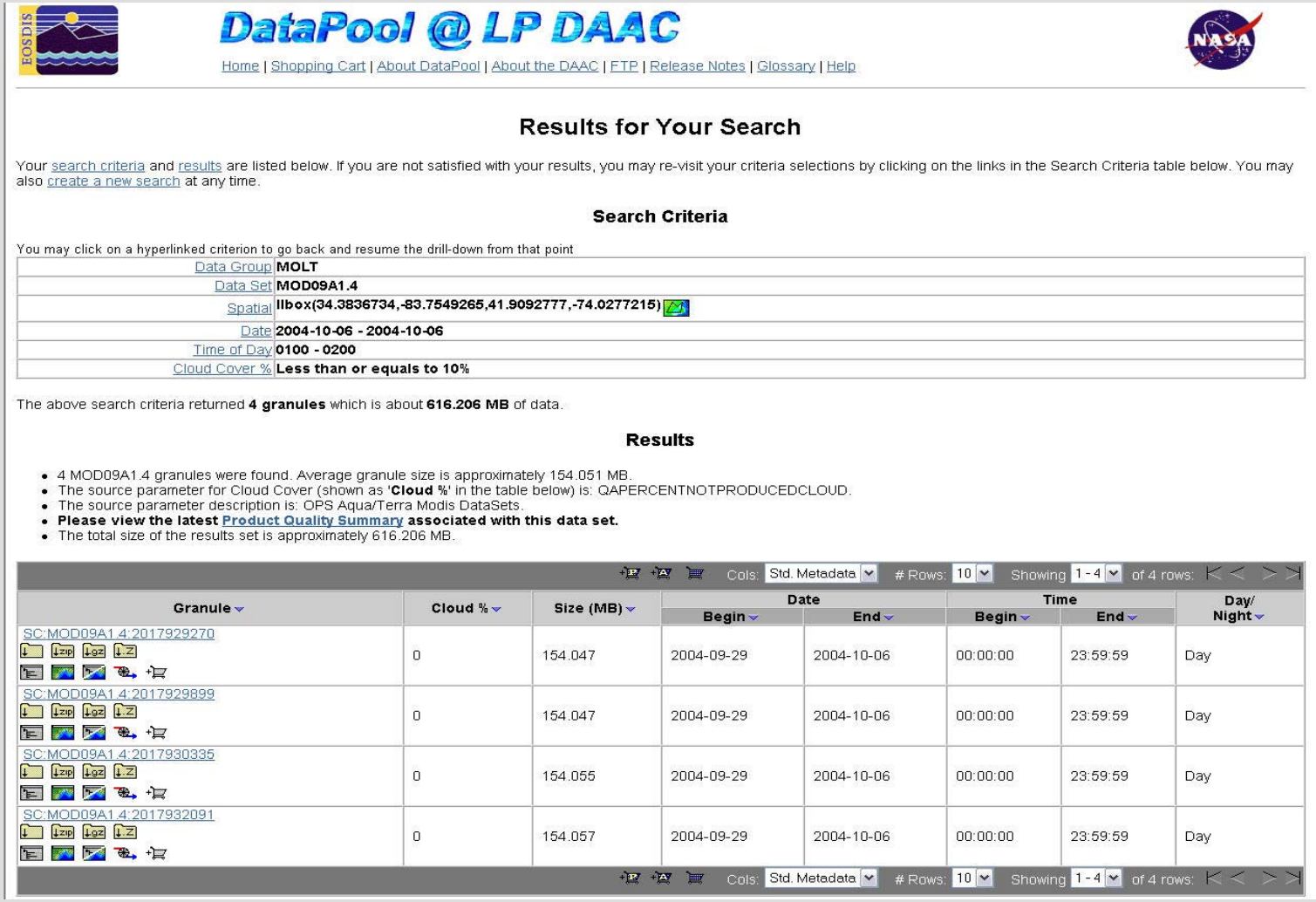
After you receive the results of your search, you may download the granules individually, or you may place selected granules in the shopping cart and order all of the selected granules at one time.

When available, use the Conversion Tool to convert data and order granules individually. In the shopping cart, you may use the Conversion Tool on individual granules or apply it to all granules.

The following pages detail ordering granules individually or through the shopping cart.

MODIS Search and Order (cont.)

Using the Tools on the Results Page



DataPool @ LP DAAC

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Results for Your Search

Your search criteria and results are listed below. If you are not satisfied with your results, you may re-visit your criteria selections by clicking on the links in the Search Criteria table below. You may also create a new search at any time.

Search Criteria

You may click on a hyperlinked criterion to go back and resume the drill-down from that point

Data Group	**MOLT**
Data Set	**MOD09A1.4**
Spatial	**llbox(34.3836734,-83.7549265,41.9092777,-74.0277215)**
Date	**2004-10-06 - 2004-10-06**
Time of Day	**0100 - 0200**
Cloud Cover %	**Less than or equals to 10%**

The above search criteria returned **4 granules** which is about **616.206 MB** of data.

Results

- 4 MOD09A1.4 granules were found. Average granule size is approximately 154.051 MB.
- The source parameter for Cloud Cover (shown as '**Cloud %**' in the table below) is: QAPERCENTNOTPRODUCEDCLOUD.
- The source parameter description is: OPS Aqua/Terra Modis DataSets.
- **Please view the latest Product Quality Summary associated with this data set.**
- The total size of the results set is approximately 616.206 MB.

Cols: Std. Metadata # Rows: 10 Showing 1 - 4 of 4 rows:

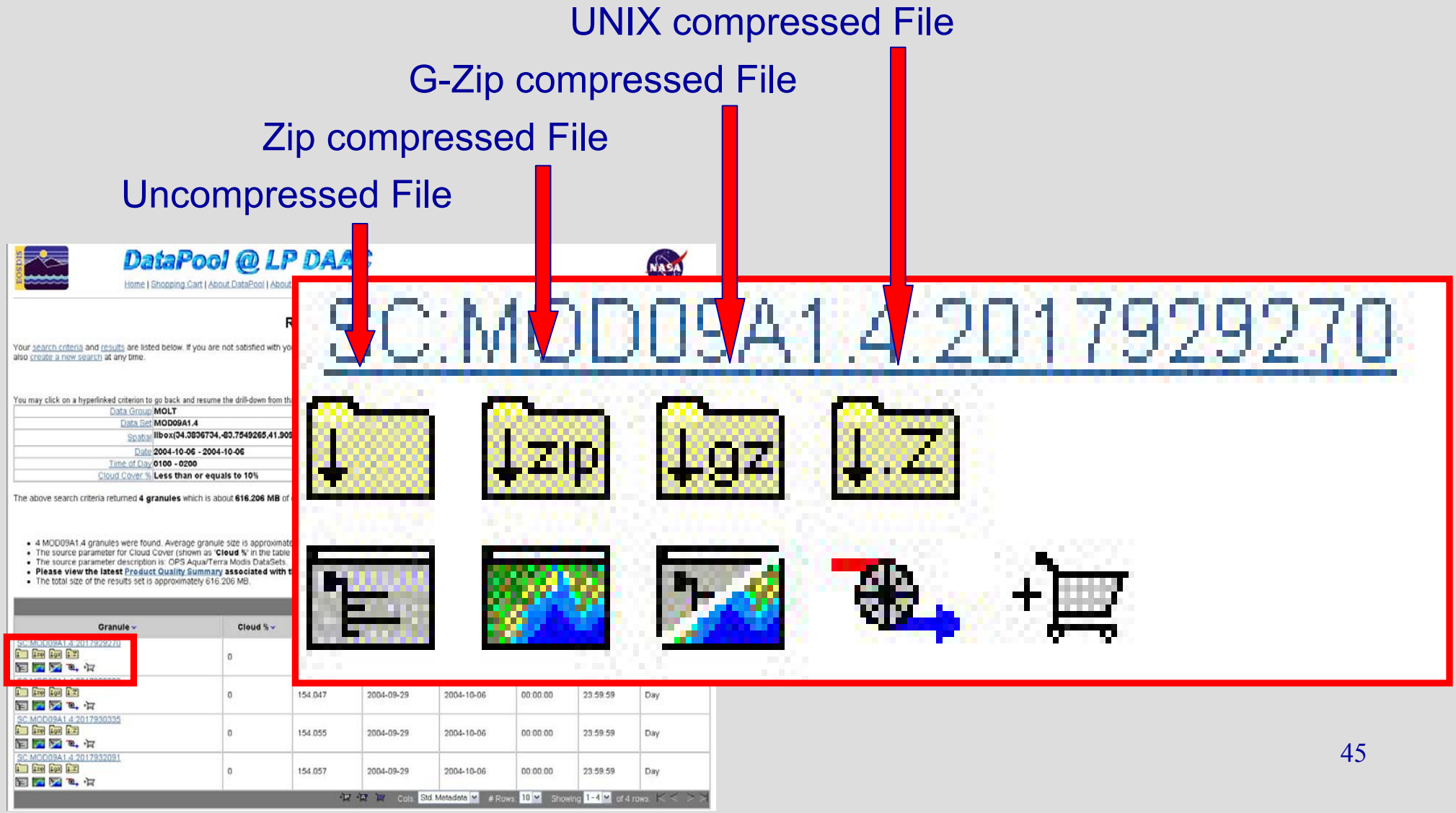
Granule	Cloud %	Size (MB)	Date		Time		Day/ Night
			Begin	End	Begin	End	
SC:MOD09A1.4:2017929270	0	154.047	2004-09-29	2004-10-06	00:00:00	23:59:59	Day
SC:MOD09A1.4:2017929899	0	154.047	2004-09-29	2004-10-06	00:00:00	23:59:59	Day
SC:MOD09A1.4:2017930335	0	154.055	2004-09-29	2004-10-06	00:00:00	23:59:59	Day
SC:MOD09A1.4:2017932091	0	154.057	2004-09-29	2004-10-06	00:00:00	23:59:59	Day

Cols: Std. Metadata # Rows: 10 Showing 1 - 4 of 4 rows:

NOTE: The Granule ID from the LP DAAC Data Pool is not the same as the Granule ID from the EOS Data Gateway.

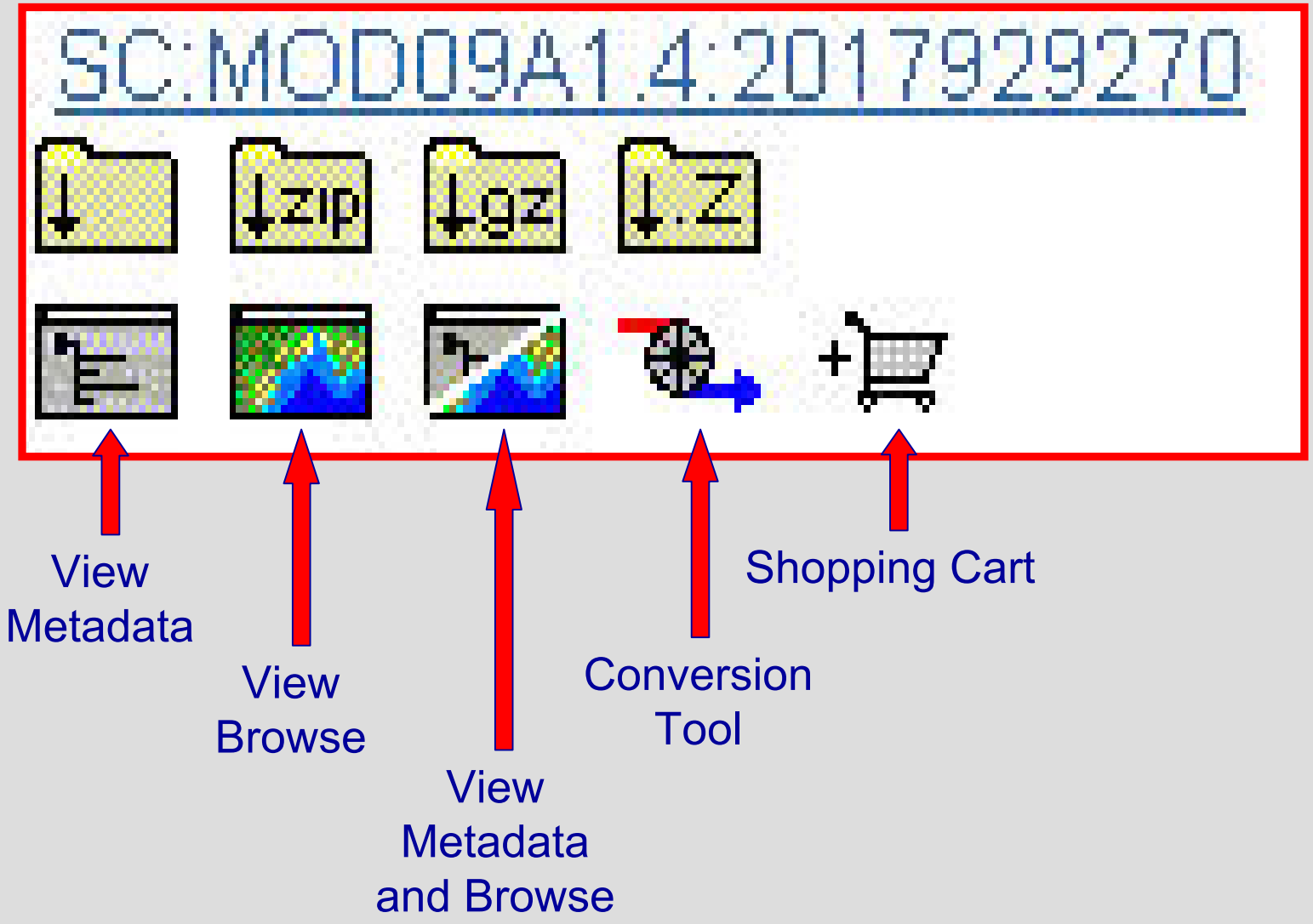
MODIS Search and Order (cont.)

Selecting one of the individual folders allows immediate download of data.



MODIS Search and Order (cont.)

Symbols on the Results Page



MODIS Search and Order (cont.)

Using the Conversion Tool

Use the Conversion Tool to convert the format from a HDF file to a GeoTIFF file.

You may convert ASTER data to the Geographic projection.

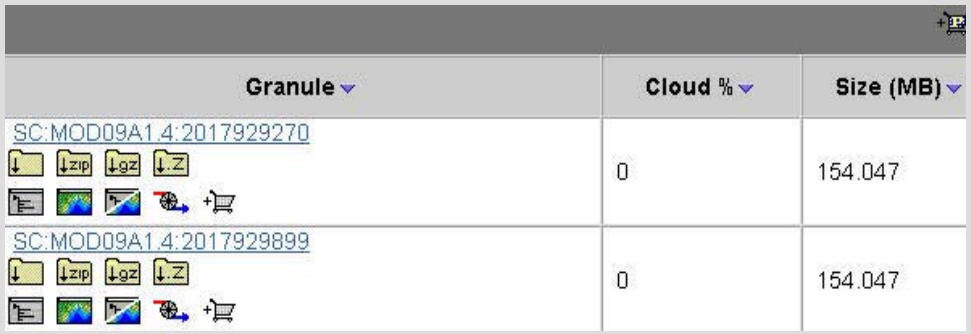
You may convert MODIS data to Geographic, Polar Stereographic, or UTM projections. Only selected MODIS data sets may be subsetted.

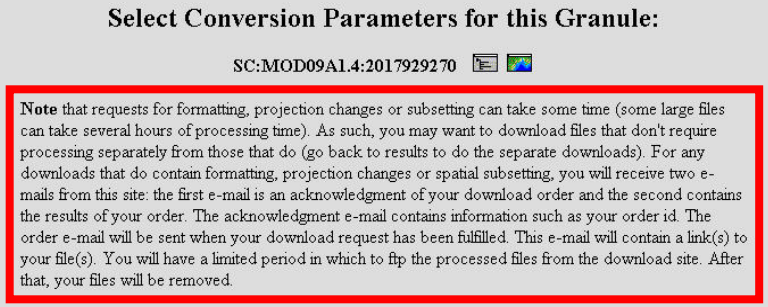
NOTE: The Conversion Tool divides the selected granule into separate files for each band.

MODIS Search and Order (cont.)

To apply the Conversion Tool to individual granules:

- Click the Conversion Tool icon.
- From the drop-down boxes, choose Format, Projection, and subsetting (if available). Enter your user name and e-mail address and click “Convert this granule.”

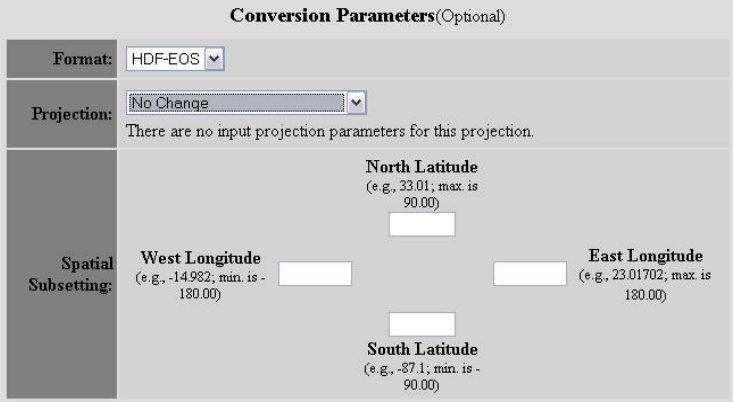




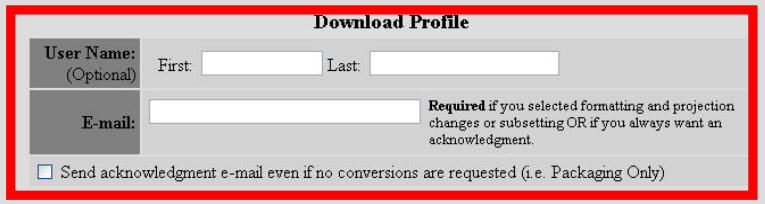
Choose Format

Choose Projection

Choose Subsetting (if available)



Enter user name and email address



Convert the granule

MODIS Search and Order (cont.)

Using the Shopping Basket

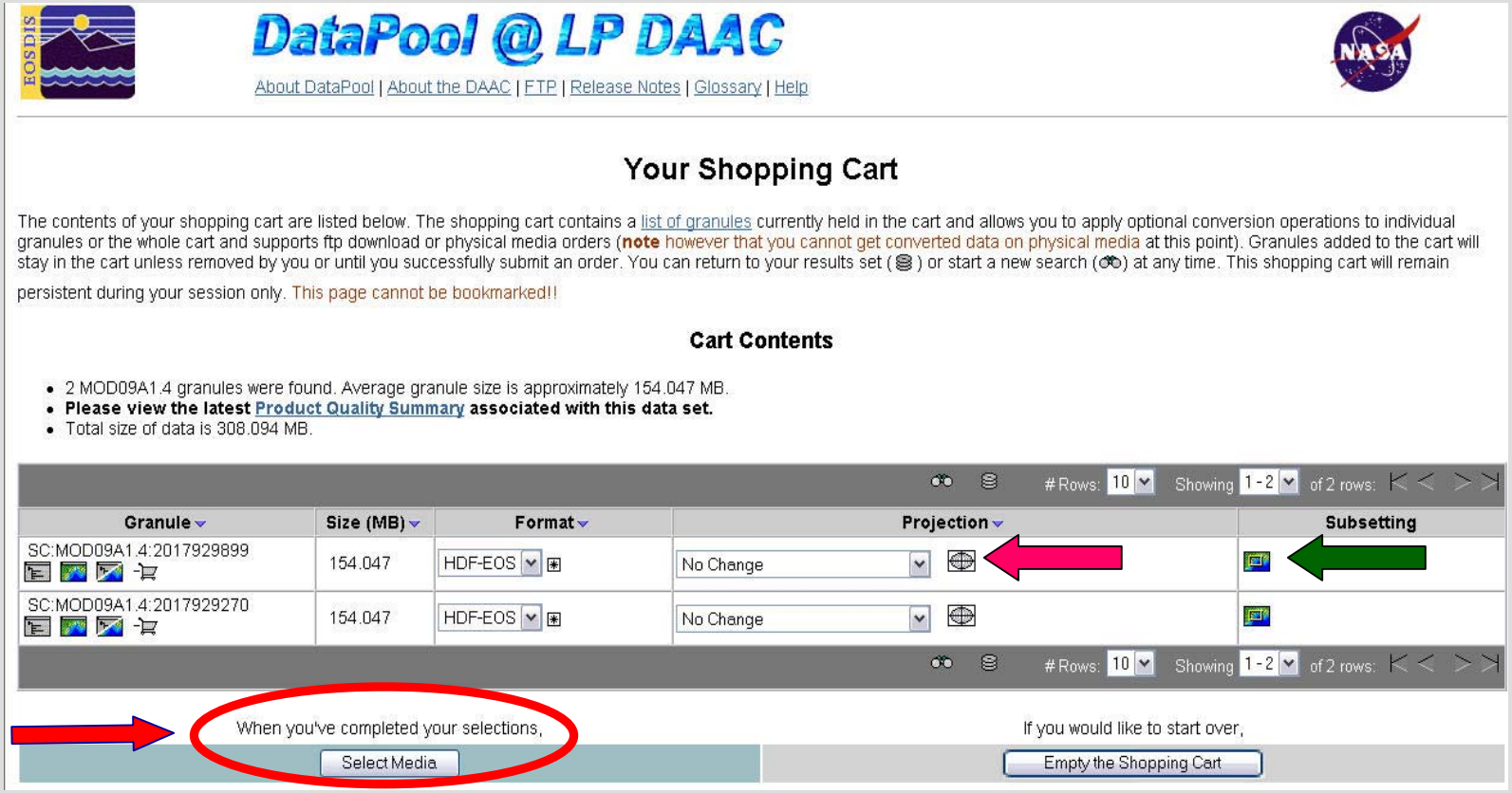
You may add granules to the Shopping Basket by selecting the granules individually or by using the Shopping Basket options at the bottom of the page.

NOTE: A red check denotes granules added to the shopping basket.

MODIS Search and Order (cont.)

Viewing the Shopping Basket

You may change the format and projection of individual granules with the appropriate drop-down boxes or use the format icon or the projection icon to apply the change to all of the granules in the shopping basket. When you are finished making your selections, click the "Select Media" button.

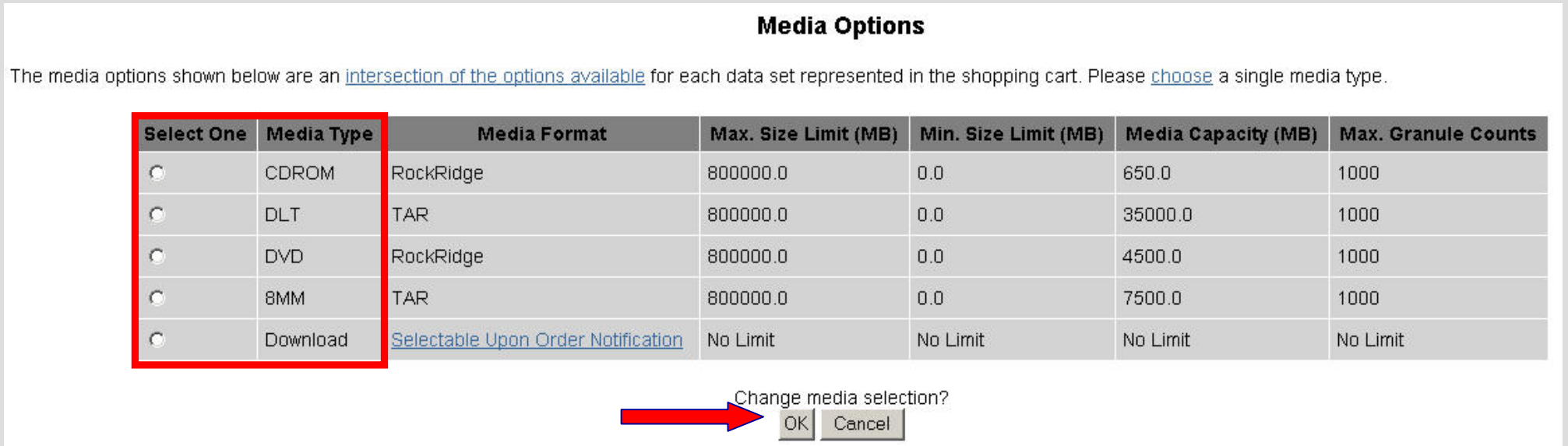


MODIS Search and Order (cont.)

To Complete a media order:

- Select the media option for your data by using the radio buttons in the far left column. Click the "OK" button after you have made your media selection.

NOTE: FTP download is the only available option to retrieve the data when the conversion tool is used.



Media Options

The media options shown below are an intersection of the options available for each data set represented in the shopping cart. Please choose a single media type.

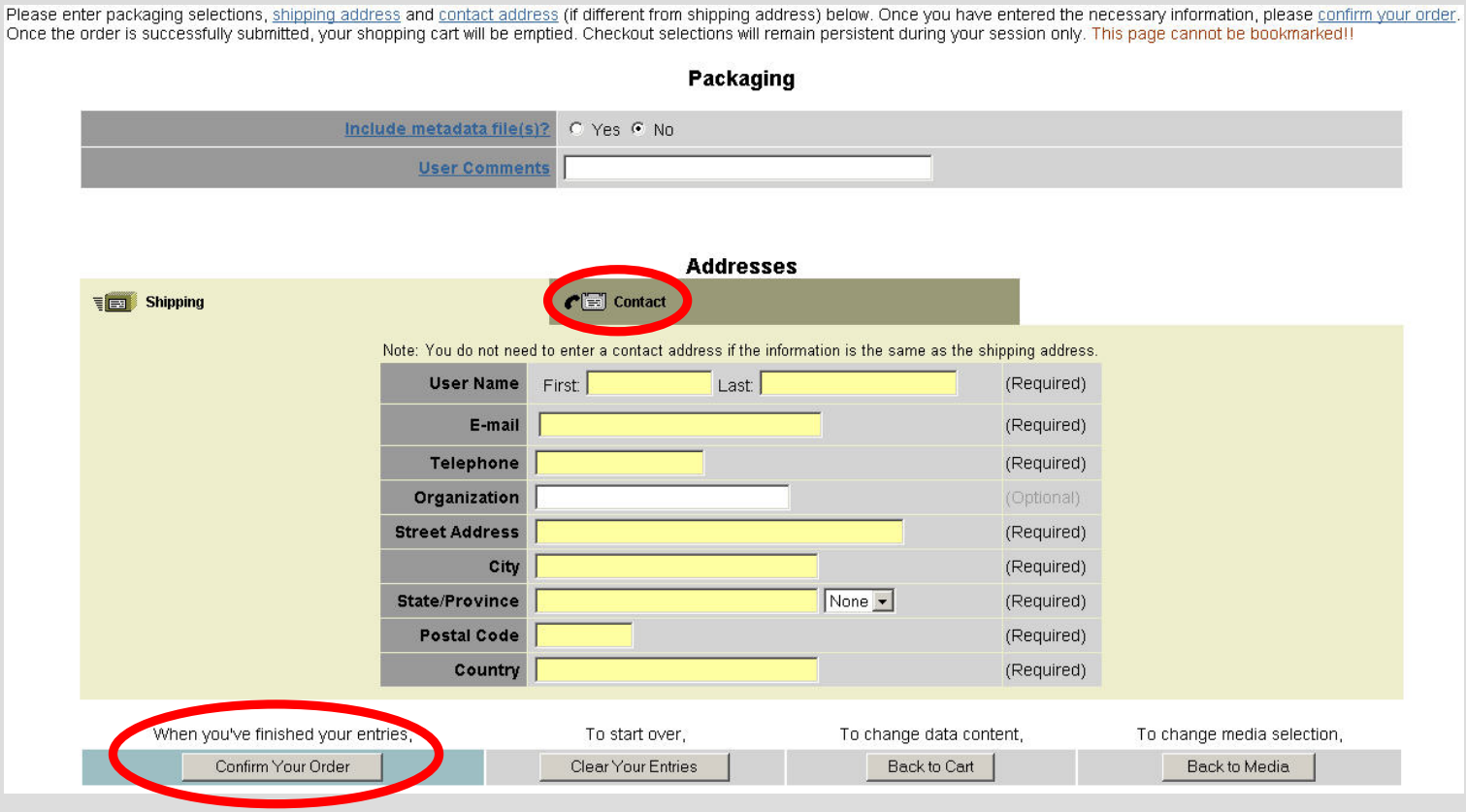
Select One	Media Type	Media Format	Max. Size Limit (MB)	Min. Size Limit (MB)	Media Capacity (MB)	Max. Granule Counts
○	CDROM	RockRidge	800000.0	0.0	650.0	1000
○	DLT	TAR	800000.0	0.0	35000.0	1000
○	DVD	RockRidge	800000.0	0.0	4500.0	1000
○	8MM	TAR	800000.0	0.0	7500.0	1000
○	Download	Selectable Upon Order Notification	No Limit	No Limit	No Limit	No Limit

Change media selection?

OK Cancel

MODIS Search and Order (cont.)

- Complete the required address information. You may use the contact icon if your shipping address is different than your contact address.
- Click the "Confirm Your Order" button after you have entered your address information.



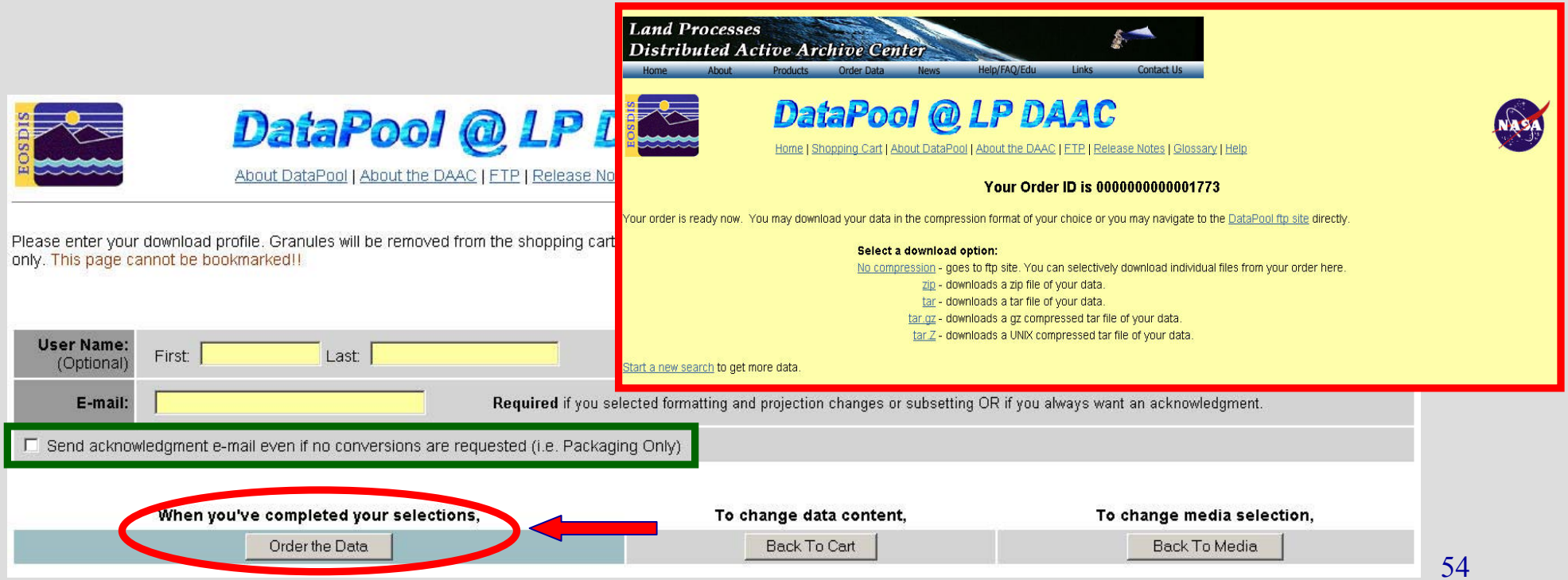
MODIS Search and Order (cont.)

- Review your order on the “Confirm Your Order” page and click the “Please Submit Your Order” button if the information is correct.
- After you submit your order, the order acknowledgment screen will display.

MODIS Search and Order (cont.)

To complete an order through FTP download:

- Complete the download profile and check the acknowledgment box for e-mail notification.
- Click the “Order the Data” button after you have completed the form.
- An order confirmation page will appear after you have ordered your data.



MODIS Search and Order (cont.)

Please choose from the following links to continue the LP DAAC Data Pool tutorial:

Direct FTP Access

Land Processes DAAC Contact Information

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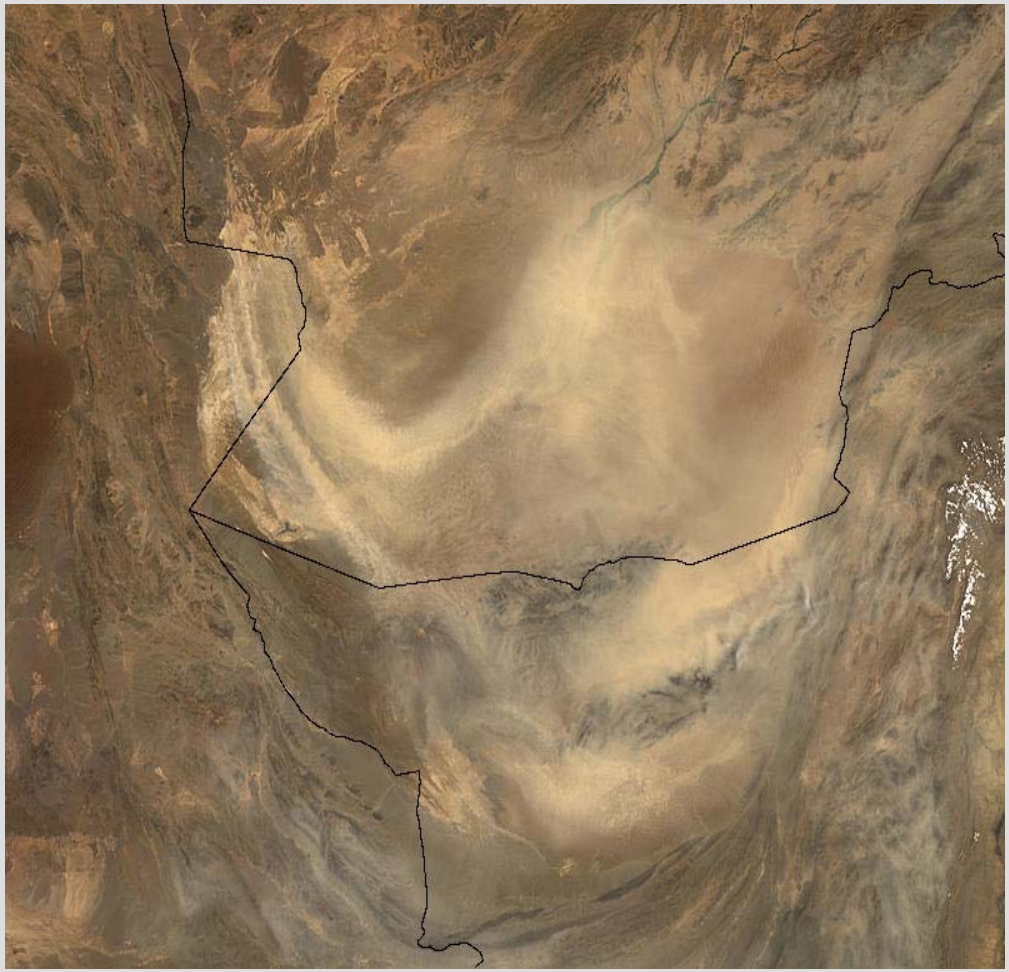
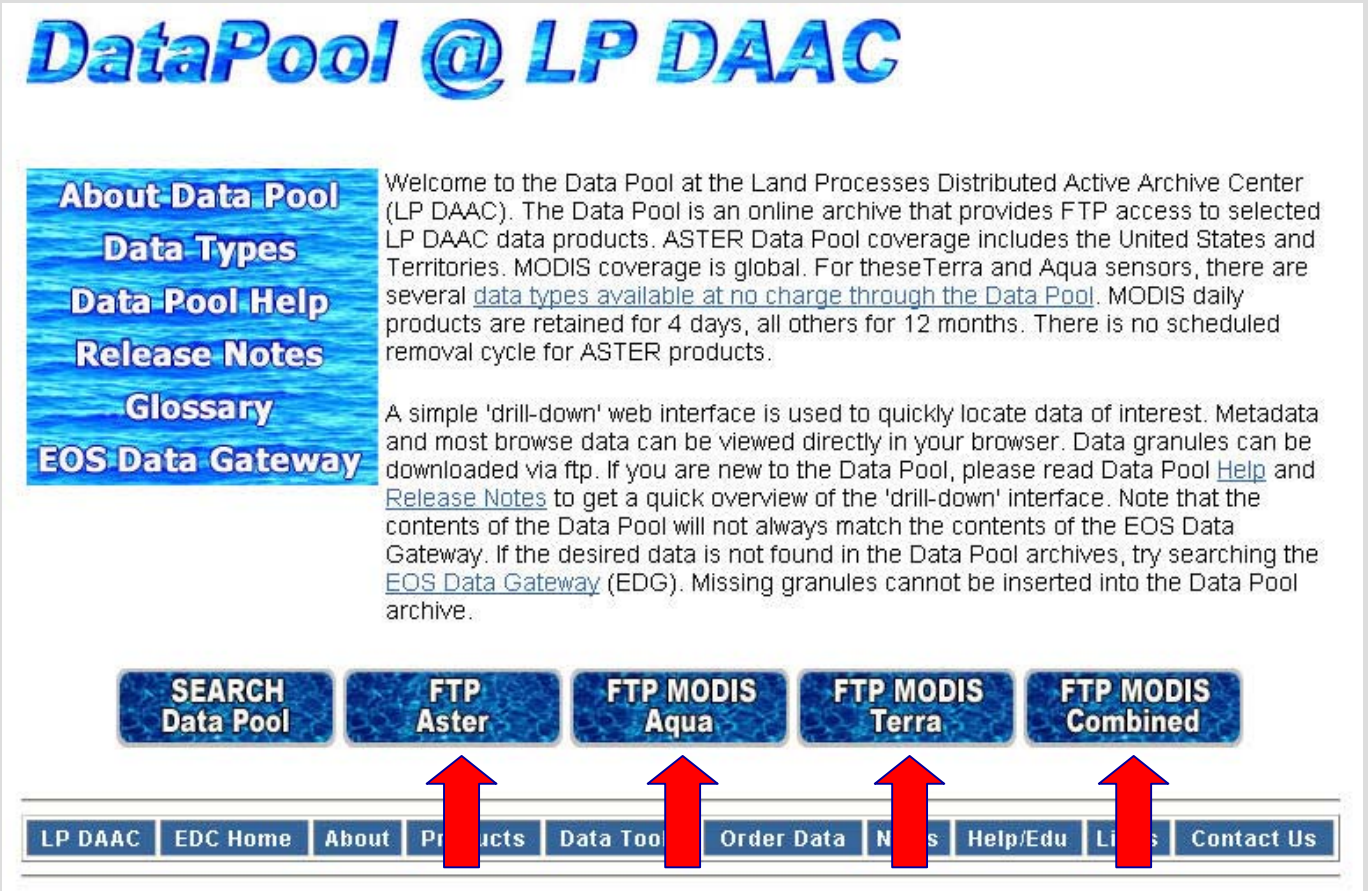


MODIS granule of a dust storm in Afghanistan

Direct FTP Access

You may download data through direct FTP by navigating to the desired granule(s), metadata file(s), and/or browse image(s). You may click the arrowed ASTER or MODIS buttons to begin FTP download.

NOTE: With direct FTP access, the data is only available as an uncompressed file(s) in HDF format.



Direct FTP Access (cont.)

The directory structure for direct FTP access in the LP DAAC is as follows:

- Data group
  - FTP ASTER
  - FTP MODIS Aqua
  - FTP MODIS Terra
  - FTP MODIS Combined
- Data set
- Acquisition Date
- Data granules
  - HDF file
  - XML document
  - JPEG (browse) image

Direct FTP Access (cont.)

Please use the links below for LP DAAC Data Pool direct FTP access instructions for ASTER or MODIS data:

- ASTER
- MODIS

MODIS granule of Northern Italy and South-central Europe

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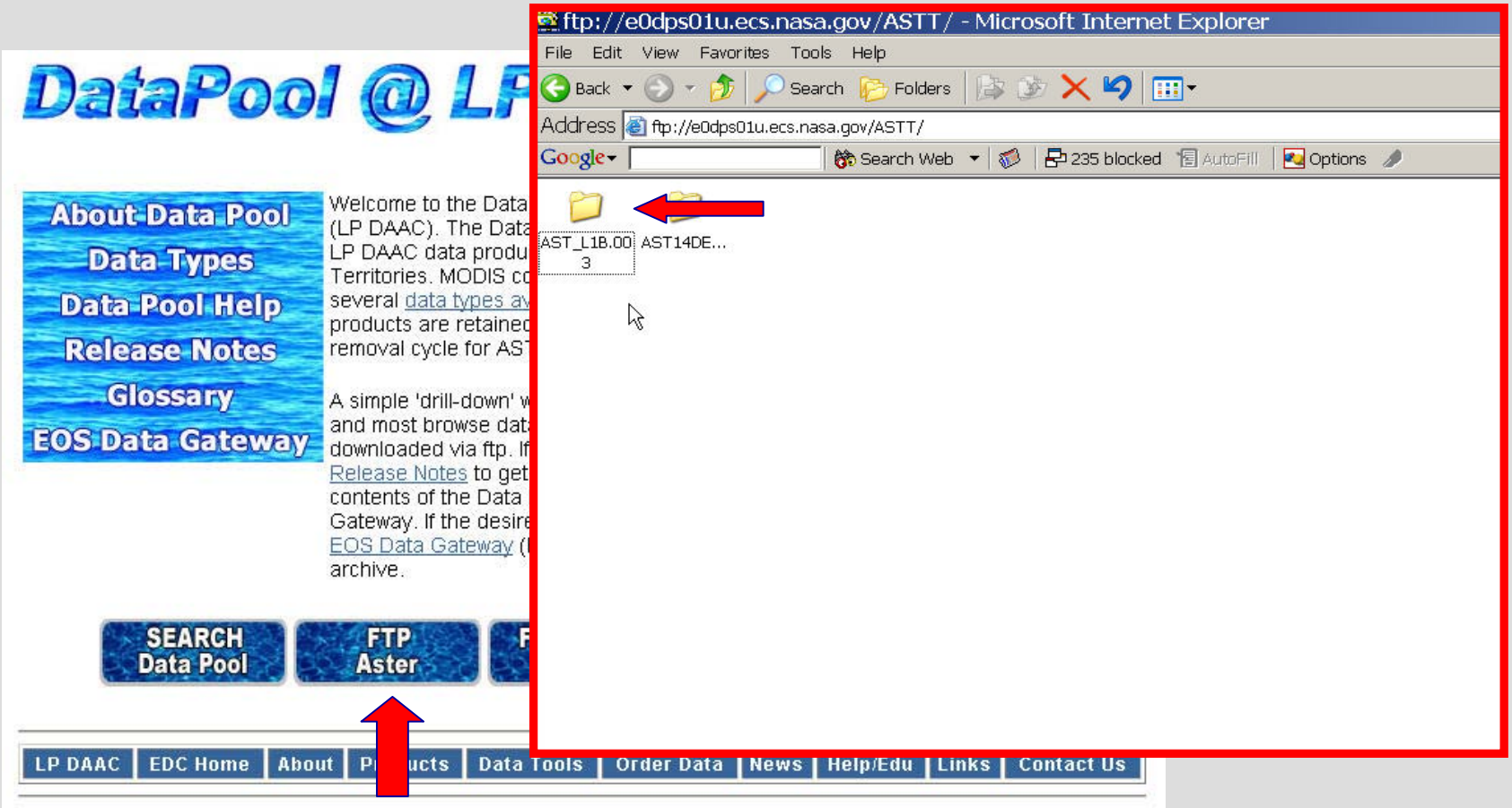
ASTER FTP Access

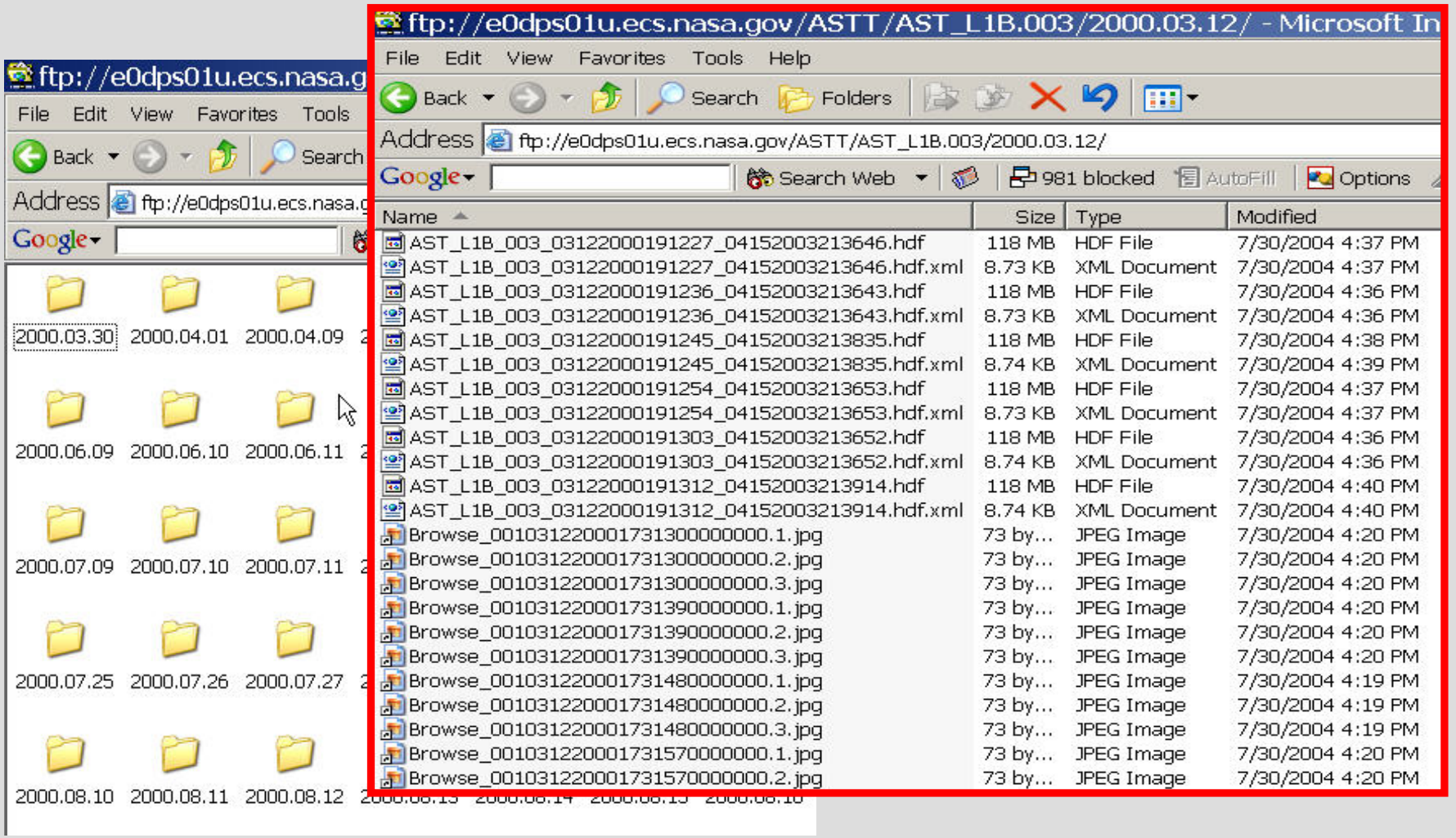
To download ASTER from the LP DAAC Data Pool through direct FTP access:

- Click the “FTP ASTER” link on the Data Pool homepage.
- Open the AST_L1B.003 folder in your browser.



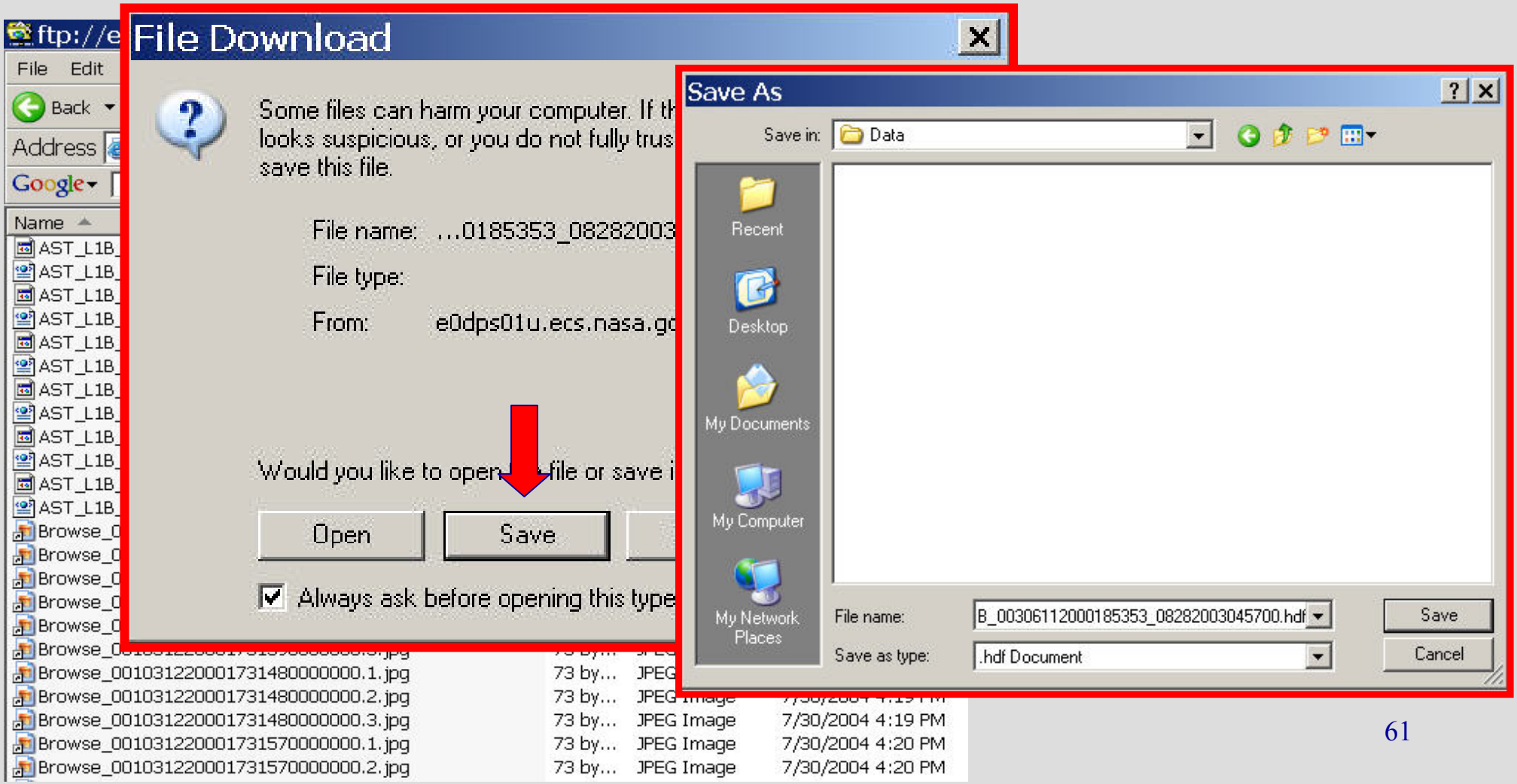
ASTER FTP Access (cont.)

- Open the desired folder based on the acquisition date.
- Each folder contains the HDF file(s), XML document(s) (metadata), and JPEG (browse) image(s) for the acquisition date.



ASTER FTP Access (cont.)

- Select your desired files for download.
- Click the “Save” button on the File Download window, and save the files to your computer.



ASTER FTP Access (cont.)

Please choose from the following links to continue the LP DAAC Data Pool tutorial:

MODIS FTP Access

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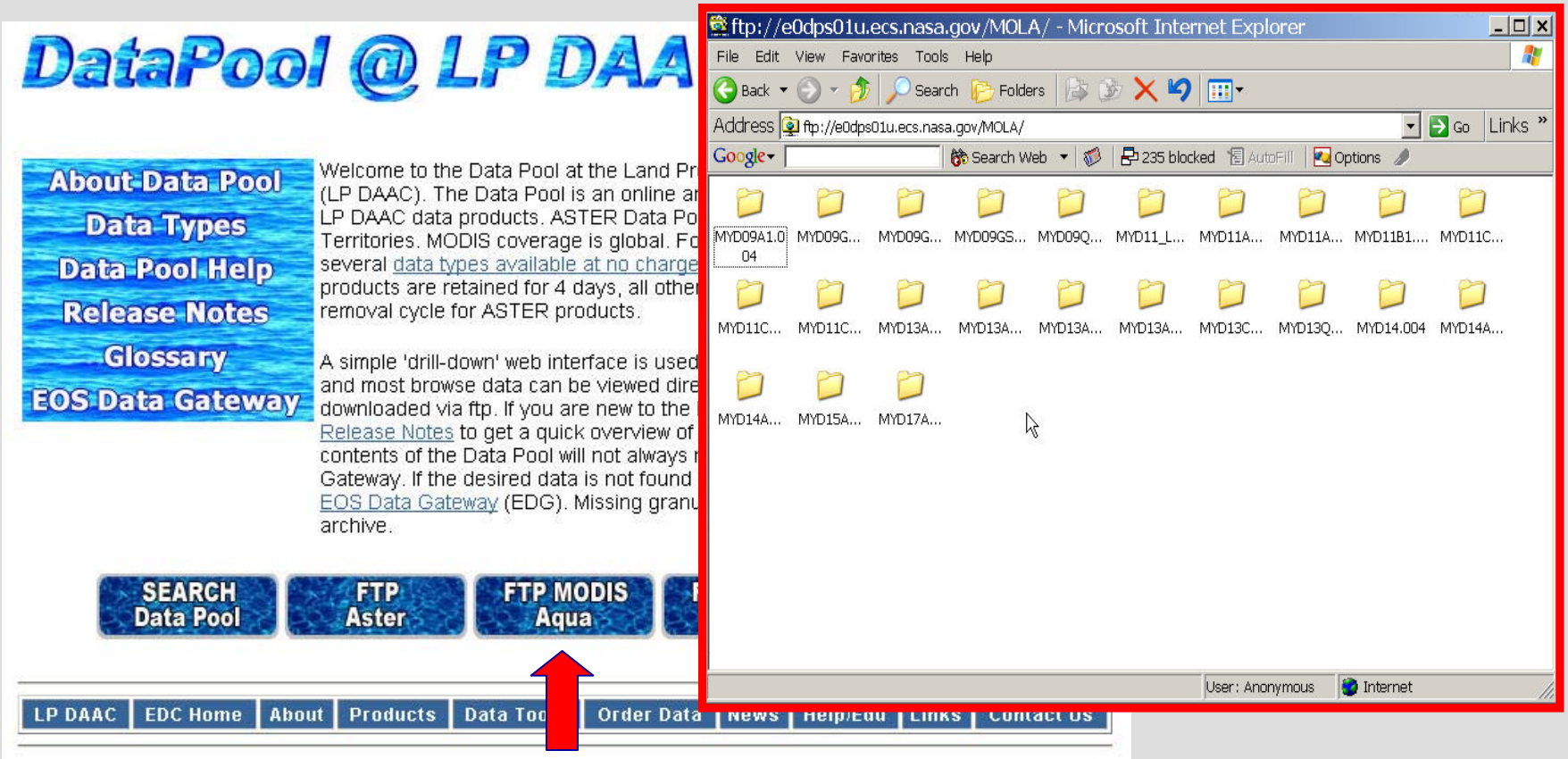
ASTER L1B granule of Washington, D. C.

MODIS FTP Access

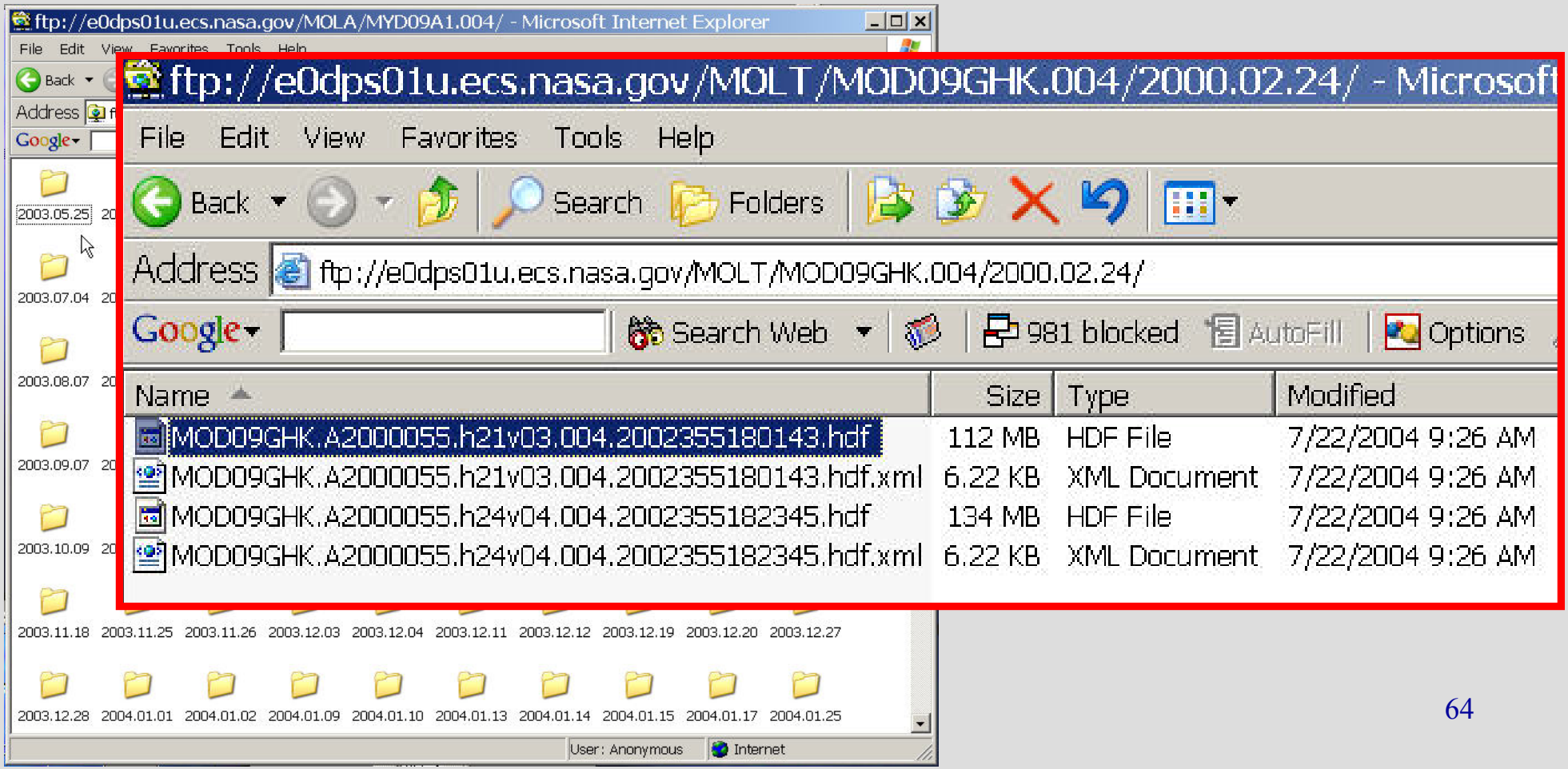
To download MODIS from the LP DAAC Data Pool through direct FTP access:

- Click the desired “FTP MODIS” link on the Data Pool homepage (the tutorial will detail an order from the MODIS Aqua data group).
- Open the desired MODIS data set folder from your browser window. Click here for MODIS data set descriptions.



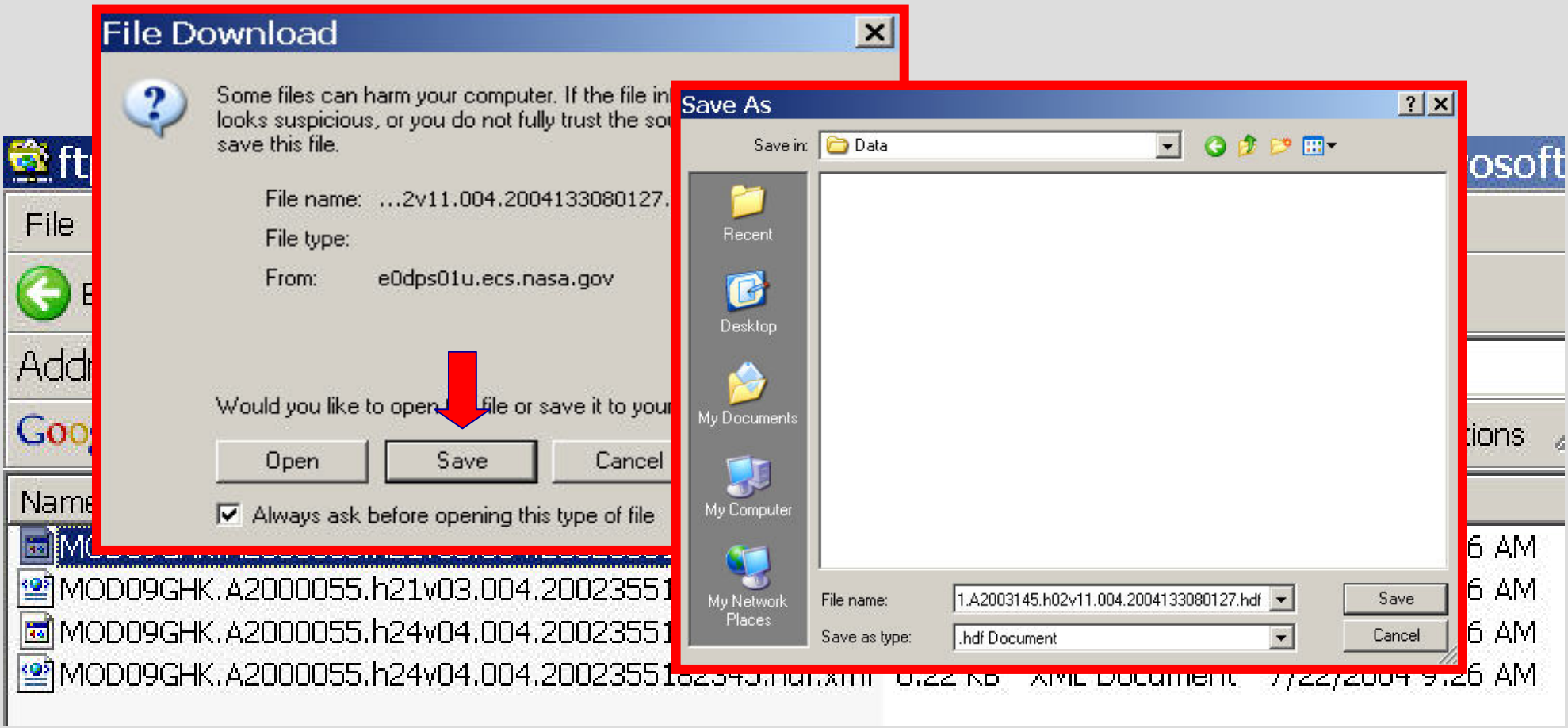
MODIS FTP Access (cont.)

- Open the folder of interest based on your acquisition date.
- Each folder contains the HDF file(s), XML document(s) (metadata), and JPEG (browse) image(s) for the acquisition date.



MODIS FTP Access (cont.)

- Select your desired files for download.
- Click the “Save” button on the File Download window, and save the files to your computer.



MODIS FTP Access (cont.)

Please choose from the following links to continue the LP DAAC Data Pool tutorial:

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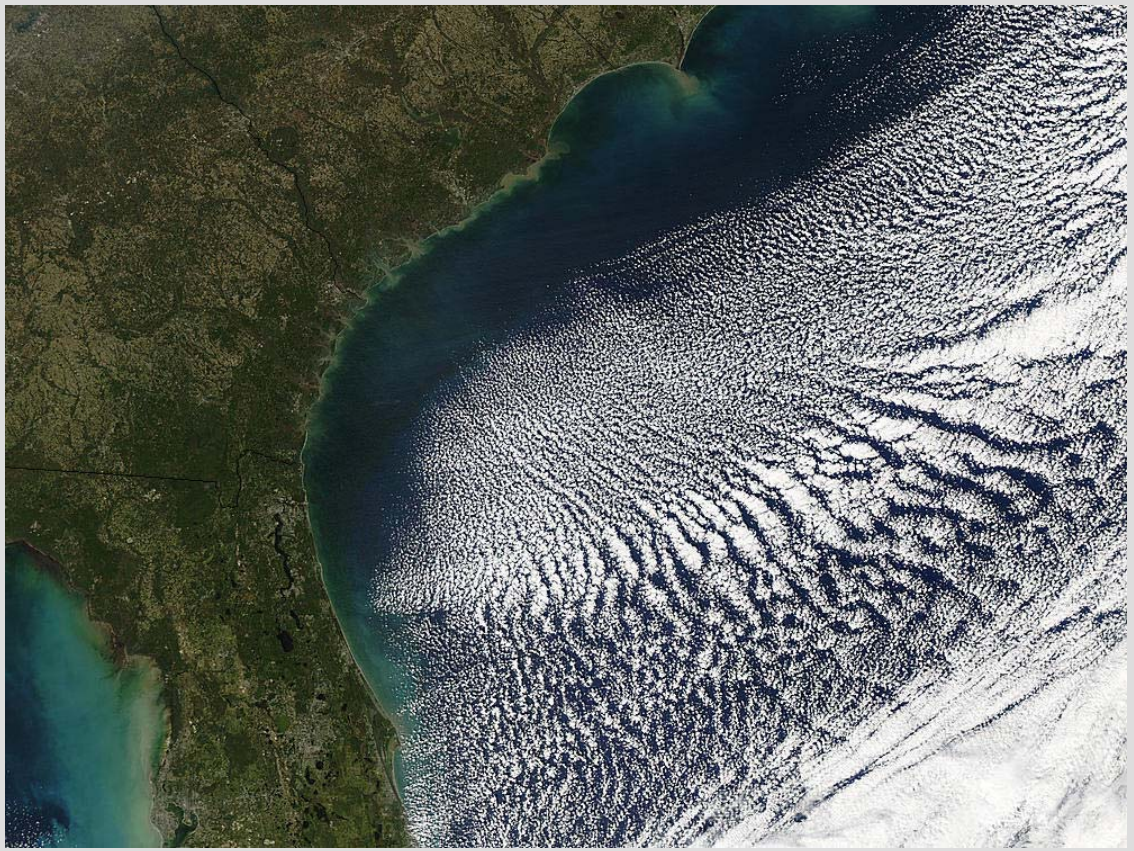

MODIS granule of the Southeastern United States with interesting clouds

LP DAAC Contact Information

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USGS Earth Resources Observation and Science (EROS)
47914 252nd St
Sioux Falls, SD 57198-0001
Voice: (605) 594-6116*
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E-mail: edc@eos.nasa.gov
Web: http://LPDAAC.usgs.gov

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